NAVAL WEATHER SERVICE DETACHMENT SHEVILLE N C F/6 4/2 SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS), ALAMEDA--ETC(U) AD-A060 998 UNCLASSIFIED NL | OF 4 A060998 题 Ü

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION F	PAGE		READ INSTRUCTIONS ORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIE	ENT'S CATALOG NUMBER
Summary of Meteorological Observat (SMOS)	ions, Surface		ce report 1945-1977
Alameda, CA		6. PERFOR	RMING ORG. REPORT NUMBER
N/A There and the Dates wint		8. CONTRA	ACT OR GRANT NUMBER(*)
Naval Weather Service Detachment Federal Building Asheville, N. C. 28801		10. PROGR	IAM ELEMENT, PROJECT, TASK à Work Unit Numbers
Director, Naval Oceanography and M	leteorol ogy	12. REPOR	
National Space Technology Laborato NSTL Station, MS 39529	ries		R OF PAGES
14. MONITORING AGENCY NAME & ADDRESS(If different	from Controlling Office)	358 15. SECUR	ITY CLASS. (of this report)
		Uncla	ssified
		15a. DECL	ASSIFICATION/DOWNGRADING
16. DISTRIBUTION STATEMENT (of this Report)			ACCESSION for
Approved for public release; distr			NTIS White Section DDC Buff Section DUNANNOUNCED DUSTIFICATION BY
			DISTRIBUTION/AVAILABILITY CODES DIST. AVAIL and for SPECIAL
16. SUPPLEMENTARY NOTES			A
Climatology, surface wind, tempera relative humidity, station pressur daily temperature, weather conditi facility, coastal region, snow dep	ture, precipita e, extreme tempons, monthly cl	tion, ce eratures imatolog	, sea level pressure, y, Naval shore
20. ABSTRACT (Continue on reverse side it necessary and This data report consists of a six weather observations. The six par Atmospheric Phenomena, Part B - Pr Surface Winds, Part D - Ceiling v Psychrometric Summaries, Part F -	part statistic ts are: Part A ecipitation/Sno ersus Visibilit	- Weath wfall/Sn y/Sky Co	er Conditions/ ow Depth, Part C - ver, Part E -

STATION 23:	23239	sialium mami: Alameda, California		37 ° 4	N. 55	122°19'W	STATION (LEV. 1973)	KNGZ KNGZ	74506	utr.)6
		STATION LOCATION	N	AND INSTRUMENTATION	STRUA	AENTA		HISTORY	,	
NUMBER OF BARD			TYPE	AT THIS LOCATION	TION	IATITUDE	OMEITHOR	ELEVATION ABOVE MSL	BOVE MSL	08S PER
LOCATION	/ =	GEOGRAPHICAL LOCATION & NAME	STATION	FROM	10			. 1994	TYPE BAROMETER	DAY
i	Weather o	Weather office (Ops Bldg)	Navy		1958	37°44'N	122°19'W	28.7	mercurial	24
2.	Weather c	Weather office (replacement) (Ops Bldg)	:	1958	1961		=	27.5	•	24
က်	Weather o	Weather office (Ops Bldg)	=	1961	1966	=	=	30.7	:	24
4	Weather C	Weather Office, Bldg 19, room 205	=	1966	1967		=	30.7	•	24
٠,	North bul	North bulkhead, 00W office, Bldg 19	:	1967	1974	•		32.7	•	24
la.		AN/GMQ-14A console, Bldg 19,Rm 205	=	1959	1961	•	=		aneroid	
2a.	AN/GMQ-14 Bldg 19	AN/GMQ-14A console, 00W office, Bldg 19	:	1967	1977			30.3		24
ä	Weather c	Weather office, Bldg 19		1959				34.3	anerold	24
NUMBER	DATE	SURFACE WIND EQUIPMENT INFORMATION	IPMENT INFOR	MATION						
LOCATION	OF CHANGE	LOCATION		TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	REMARKS, ADDIT	TONAL EQUIPMENT,	REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE	NGE.
1:	Installed	Atop operations control tower Atop operations control tower	er	selsyn AN/UMQ-50	triple RD-108	70,	1. Barograph 2. Semi-auto	h o Met.sta	Barograph Semi-auto Met.station (AN/GMQ-29)	3MQ-29)
6.4	Relocated	FLEWEACEN storage spaces Approach end runway 31		AN/PMQ-3 AN/UMQ-50	d RD-108B	15,		ight set someter (Cloud height set (AN/GMQ-13D) Transmissometer (AN/GMQ-10C)	(i) (ii)
3.	Relocated	Weather office, Bldg 19		AN/PMQ-3	RD-108B	151				

NWSD, Federal Building Asheville, N. C.

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

The state of the s

DIRNAVOCEANMET 1tr 3146 Ser 1032 dated 26 August 1977 (NOTAL) established the following policy for SMOS production and updating:

- Ten years of data will be used as the standard period of record (POR).
- 2. All available data will be used for extreme values.
- 3. Summarize (update) every five years.
- 5 year summary will be an intermediate SMOS to show secular trends. All available data through 1977 Summarize the five year period (1973-1977) for all sections of the SMOS except extremes. will be included for extreme values.
- The update in 1983 will include the POR 1973 through 1982, with all available data through 1982 for extreme values.
- The update in 1988 will be an intermediate SMOS (POR 1983-1987). All available data through 1987 will be included for extreme values.
- In 1993 the POR will be 1983 through 1992. All available data through 1992 will be used for

Each standard POR (10 years) summary should be retained by individual stations along with the SMOS pre-pared in 1973. The retention of these summaries will provide the most comprehensive climatological file

<u>DESCRIPTION:</u> Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of ".O". (This value indicates a percent less than ".O5," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during, the processing stage. Efforts to improve the quality of the data is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Weather Service Detachment (NWSD), Asheville, N. C. welcomes your comment and criticisms.

PART /

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

- . By month and annual, all hours and years combined.
- By month and annual, all hours and years combined, by wind direction
- 3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

1 Occurrences of hail and small hail are included.

more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns. Percentage of observations with precipitation - Included in this category are the observations when one or

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction reflect the total observations with reduced visibility. The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

may occur in the same daily observation, the sum of the values in the individual columns may not equal the centage of observations. Since more than one type of precipitation or more than one type of obstruction The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories "# OF OBS WITH PRECIP" and "# OF OBS WITH OBST TO VISION" show the percentage of days rather than persummarized in these tabulations. However, it should be noted that in this summary the columns headed total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the "% Total" indicates percentage frequency (plus calm). Column totals show the number of observations.

ALAMEDA, CALIFORNIA

NOW HOW

TOTAL NO. OF OBS.	185	155	155	155	155	155	155	155		1240
% OF OBS WITH OBST TO VISION	29.7	34.8	0.04	48.4	45.8	37.4	1691	19.4		0.46
DUST AND/OR SAND										
BLOWING										
SMOKE AND/OR HAZE	19.4	18,1	\$2,6	36,1	39,4	32,3	1209	13,5		24,3
FOG	16.1	22,6	25,8	18,1	11.6	5,2	3,2	5,8		7.6 13.6 24.3
% OF OBS WITH PRECIP.	5,8	0.6	7.7	7.7	6.9	7,1	7.7	0.6		9.7
HAIL										
SNOW AND/OR SLEET						•				4,1
FREEZING RAIN &/OR DRIZZLE										
RAIN AND/OR DRIZZLE	5,8	9,0	7.7	7.7	6,5	7,1	7,7	0.6		7,6
THUNDER- STORMS						1,3				2,
HOURS (L.S.T.)	6	8	0.7	2	13	10	10	22		
MONTH	NAT									TOTALS

ALAMEDA, CALIFORNIA

73-77

FEB

PERCENTAGE PREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY DESERVATIONS

TOTAL NO. OF OBS.	141	141	141	101	141	141	141	141				1128
% OF OBS WITH OBST TO VISION	7.1	16,3	27.0	33,3	31.9	22.0	9,2	8.5				19.4
DUST AND/OR SAND												
BLOWING												
SMOKE AND/OR HAZE	2,8	5,0	11,3	18,4	35.5	15.6	5,7	4,3				111
80	5.7	16.0	22.0	19,9	6.6	7.8	5,7	5.7				11,5
% OF OBS WITH PRECIP.	5,7	8,5	12,1	7.8	10.6	10.0	11,3	7.8				6.9
HAIL												
SNOW AND/OR SLEET		-										1.
FREEZING RAIN &/OR DRIZZLE												
RAIN AND/OR DRIZZLE	5,7	7,8	12,1	7.8	10.6	10.6	11,3	7,8				9.2
THUNDER- STORMS												
HOURS (L.S.T.)	8	*	10	01	13	91	61	22				
MONTH	FEB											TOTALS
White to be seen to	March Comment of the	STATE OF STREET	COLUMN TO SERVICE	The St. of St.	12.005 P. L. 19.05	ALMOND THE REAL PROPERTY.	AND LINES OF SERVICE	T 80 1/200	The Real Property	A COLUMN TOWN	Walliam Control	STATE OF THE PARTY OF

0

0

0

0

00

0

OFO

0



NO. OF OBS.

ALAMEDA, CALIFORNIA

73-77

MAR

WEATHER CONDITIONS

PERCENTAGE PREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

BLOWING SMOKE AND/OR HAZE 500

% OF OBS WITH PRECIP.

HAIL

SNOW AND/OR SLEET

FREEZING RAIN &/OR DRIZZLE

RAIN AND/OR DRIZZLE

THUNDER-STORMS

HOURS (L.S.T.)

MONTH

9.

10.3

10.3

6

MAR

10,3

40

11.6

0

AND/OR SAND

% OF OBS WITH OBST TO VISION

1.9

2.6

155

7.7 7.7 1.6

155

155

1.9

7:1

11.6

.

1.9

10,3

649

4.5

8.4

9

8.4

2

6.9

4.8

10

11.6

10

12,3

22

3,2

4.5

6.9

155

3.9

0

155 155

9.

3.2

4.8

3.2

11.0

1.3

12,3

0

1.3

3.2

155 155

0.是0

1240

. .

1.7

3.4

6.6

--

-

6.6

TOTALS

Ō

0

0

0

0

9 0

NAVWEASERVCOM

0 D

23239

0 0

















ALAMEDA, CALIFORNIA STATION

73-77

APR HONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY DESERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	90	SMOKE AND/OR HAZE	BLOWING	AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	10		4.7				4.7	4.	4.			۲,	150
	*		3,3				3,3		7.			1.3	150
	07		6.1				6,7	5,3	4,0			8.7	150
	10		3,3				3,3	2,0	3,3		•	5.3	150
	23		5,3				5,3	1,3	1,3			2.7	150
	91		4.0				4.0		7,			1.3	150
	19		2.0				2,0	1,3	2,0			2.7	150
	22		2.7				2,7	1.3	7,			1.3	150
TOTALS			0.4				0.4	1.7	1.7			9.0	1200

0

ALAMEDA, CALIFORNIA 23239 STATION

126.8695 msH

0

0

0

0

0

0

0

0

0

73-77

.

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER

TOTAL NO. OF OBS.	154	155	155	155	155	155	155	155		
% OF OBS WITH OBST TO VISION	9.2	1.9	7,7	4.5	1,9	1,3	5.8	1.9		
DUST AND/OR SAND										
BLOWING										
SMOKE AND/OR HAZE	1,3	1.9	5,2	3,2	1,9	1,3	3,2	1,3		
50	1,3	•	2,6	1.9			2.6	9.		
% OF OBS WITH PRECIP.	1,3	1,3	3,2	2,6	1,3	1.9	1,3	0.		
HAIL										
SNOW AND/OR SLEET										
FREEZING RAIN &/OR DRIZZLE										
RAIN AND/OR DRIZZLE	1,3	1,3	3.2	2.6	1,3	1.9	1,3	9.		
THUNDER- STORMS										
HOURS (L.S.T.)	10	90	07	10	13	16	1.9	22		
MONTH	MAY									

0

0 0

-	<		
-			
1	3	TOTAL PROPERTY	
	2		-
1			
		-	

0

0

0

0

0

73-77

S IL

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY DOSERVATIONS

THUNDER- AND/OR STORMS STORMS DRIZZLE
52

0

S HATH

WEATHER CONDITIONS

CALIFORNIA	STATION NAME	
ALAMEDA		

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY DESERVATIONS

TOTAL NO. OF OBS.	155	155	155	155	155	155	155	155		1240
% OF OBS WITH OBST TO VISION	8 . 4	13,5	19.4	8.4	109	2.0	3.8	4.5		1.8
DUST AND/OR SAND										
BLOWING									1	
SMOKE AND/OR HAZE	1,9	1,3	7,1	4,5	1,9	2.6	5,2	2,6		9,6
8	6,9	12,3	13.5	4.5	1,3		1,3	2.6		8.3
% OF OBS WITH PRECIP.	5.8	6,9	7.7	1.9	•			1.9		3.1
HAIL										
SNOW AND/OR SLEET										
FREEZING RAIN &/OR DRIZZLE										
RAIN AND/OR DRIZZLE	5.8	6,9	7.7	1.9	•			1.9		3.1
THUNDER. STORMS										
HOURS (LST.)	6	8	60	2	13	16	1.0	22	530	
MONTH	100									TOTALS

10	7	1
YEATHER	CONDITIONS	JAN 8
		- A - A

ALAMEDA, CALIFURNIA STATION NAME

AUG

73-77	

NEATIER NS
PL
DE OCCURRENCE HOURLY DESERVA
PERCENTAGE FREQUENCY DF OCCURRENCE OF WEATHER

OBS TOTAL DBST NO. OF ION OBS.	9.0 155	13.5 155	18.1 155	7,1 155	2,0 155	3,9 155	7.7 155	4,5 155		
% OF OBS WITH OBST TO VISION	0	13	18	•	7	6	7	*		
DUST AND/OR SAND										
BLOWING										
SMOKE AND/OR HAZE	1,3	1,9	5,2	3,2	2,6	3,2	3,2	9.		
F0G	9.4	12,9	15,5	4,5		9.	4.5	3,9		
% OF OBS WITH PRECIP.	9.7	7,1	6,5	3.9	•	1,3	3,2	5,2		
HAIL										
SNOW AND/OR SLEET										
FREEZING RAIN &/OR DRIZZLE										
RAIN AND/OR DRIZZLE	9.7	7,1	6,9	3,9	•	1,3	3,2	5,2		
THUNDER- STORMS	•		0.	•	•	0.	0.			
HOURS (L.S.T.)	10	*0	0.7	9	13	16	19	22		
MONTH	AUG									

O.

0

0

0

0

0

SEP

WEATHER CONDITIONS

ALAMEDA, CALIFORNIA

1565-5432 IIII

73-77

YEARS

Œ!	
-	
-	
4	
141 40	
= =	
2 2	
0	
11.00	
a	
The state of	
W >	
2.5	
218	
M C	
W (10)	
= =	
E .	
2	
444	
2 -	
DIE.	
0.0	
==	
OI	
> 5	
0.0	
ZK	
100 10.	
=	
2	
35	
WZ	
W.O.	
-	
141	
310	
42	
-0	
-	
20	
CONDITIONS FROM HOURLY DESERVATIONS	
~	
-	
-	
0.	
A CONTRACTOR OF THE PARTY OF TH	

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING	AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	10		4.0				0.4	5,3				5,3	150
April 1	8		0.0				0.9	8.0	4.			0.8	150
	0		4.0				0.0	20,0	0.0			24.0	150
	10		4.7				4.	0.0	8,7			15.3	150
	13		2.7				2,7	1,3	12,0			12.7	150
	16		2,0				2,0	1,3	7,3			8,7	150
	19		4.0				0.4	0.9	2,7			0.8	150
	22		1,3				1,3	5,3	1,3			1.0	150
TOTALS			3,6				3,6	6.9	4,8			1111	1200

0

-

ALAMEDA, CALIFORNIA

73-77

HOWTH HONTH

PERCENTAGE PREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY DBSERVATIONS

MONTH	HOURS (LS.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	80	SMOKE AND/OR HAZE	BLOWING	AND/OR SAND	and the second s	% OF OBS WITH OBST TO VISION
720	8		1,9				1.9	1.9	1,0				3,2
	8		5.2				5.2	5,2	1,9			7 1	6.9
	0.7		5.2				5.2	12.9	12,9				28.2
	91		2.6				2.6	7.7	29.7			-	36.1
	13	0.	3,2				3.2	2.6	22,6				25.2
	2		1,3				1,3		13,5				13,5
	61		5,2				5.5	1,3	3,2				3.9
	22		5,8				5.8	3,2	1.9				3.9
TOTALS		1.	3,8				3.8	*	4.4 11.0				14.7

NAVWEASERVCOM

0

0 0

0

ALAMEDA, CALIFORNIA

15665-8605 11511

0

0

0

0

0

0

0

The state of the s

73-77

NON HENOR

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

₽ o s	150	150	150	150	150	150	150	150	T	1300
TOTAL NO. OF OBS.						-		-		
% OF OBS WITH OBST TO VISION	18.7	18.7	33,3	37,3	31,3	23,3	12.0	16.0		23.8
DUST AND/OR SAND										
BLOWING										
SMOKE AND/OR HAZE	13,3	12.7	18.7	30.0	27.3	21,3	10.7	12,0		
506	14.0	11.3	24.0	16.0	8.7	4.0	2.7	7.3		
% OF OBS WITH PRECIP.	0.9	7,3	6.7	0.0	8.0	5,3	8.0	8,7		,
HAIL										
SNOW AND/OR SLEET										
FREEZING RAIN &/OR DRIZZLE										
RAIN AND/OR DRIZZLE	0.9	7.3	6.7	0.0	8.0	5,3	8.0	8.7		
THUNDER- STORMS										
HOURS (L.S.T.)	10	*	0.7	91	13	91	19	22		
МОМТН	NO.									TOTALS

0

0

0

0

9

0

E

WEATHER CONDITIONS

ALAMEDAS CALIFORNIA

73-77

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTAL NO. OF OBS.	155	155	155	155	155	155	155	155		1240
% OF OBS WITH OBST TO VISION	43.2	46,5	91.6	57.4	54.8	0.64	27.1	34.2		45.5
DUST AND/OR SAND	9.	9.					•	9.		
BLOWING								,		
SMOKE AND/OR HAZE	21.0	23.9	24.5	33.5	44.5	40.0	17.4	18.1		28.0
FOG	25.2	27.1	32.3	29.7	18,1	11.6	9.7	19.4		21.6
% OF OBS WITH PRECIP.	5.2	5,2	9,7	8.8	8,4	4.8	6.5	6,5		7.0
HAIL										
SNOW AND/OR SLEET										
FREEZING RAIN &/OR DRIZZLE										
RAIN AND/OR DRIZZLE	5.2	5.2	9.7	5,8	8.4	8.4	6.5	6,9		7.0
THUNDER- STORMS	9	9	90	9.						6.
HOURS (LS.T.)	10	*	0.7	10	13	16	19	22		
МОМТН	DEC									TOTALS

OFO

73-77

ALAMEDA, CALIFORNIA

ALL

WEATHER CONDITIONS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

МОМТН	HOURS (LS.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	114	2,	7,6		7		7.6	13.6	24,3			34.0	1240
FEB			9.2		-		9.3	11.5	1101			19.4	1128
MAR			6.6		1.	1.	6.6	3.4	1.7			4.8	1240
APR			4.0				0.4	1.7	1.7			3.0	1200
MAY			1.7				1,7	1.2	2.4			3,5	1239
NOS		1.	1.9				1,9	2.8	3,2			5.8	1200
100			3.1				3,1	5.3	3.4			8.1	1240
AUG		. 5	4.7				4.7	6.3	2.7			8.3	1240
SEP			3,6				3.6	6.9	4.8			11.1	1200
100		•1	3.8				3.8	4:4	11.0			14.7	1240
NOV			7.0				7.0	11.0	18,3			23.8	1200
DEC		, 3	7.0				7.0	21.6	28.0		6.	45.5	1240
TOTALS			5,3		°.	•	5,3	7.5	9.4		0.	15.2	14607

0.20

0

0

9

0

WEATHER CONDITIONS ATMOSPHERIC PHENDMENA

ALAMEDA, CALIFORNIA

49-77

ALL

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENDMENA

MONTH	HOURS (LS.T.)	THUNDER. STORMS	RAIN AND/OR DRIZZIE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	NO. OF OBS.
SAN	DAILY	1.0	42.6		4.	1.0	42.7	45.2	57.1			9.80	
2		1,2	40.3		. 5	*.	40.4	36.3	46.0			54.7	
MAR		•	39.8			•.	39.8	16.2	26.8			34.1	
APA		2.0	28.2			1.3	28.2	9.5	25,7			29.3	870
HAY		•	21.7				21.7	10.9	28.4			32.8	899
3		6.	19.0				19.0	12.2	25,1			32,2	870
1			21.2				21.2	22.8	37.6			47.8	868
400		•	25.7				25.7	25.1	37.5			48.2	668
SEP		6.	17.0				17.9	21.6	47.7			54.8	970
100			21.6			-	21.6	28.0	56.4			63.5	668
20%		.3	33.0		-	•	3350	40.6	57.7			67.9	970
200		0.	39.7		•	•	39.7	48.9	55.4			70.3	668
TOTALS		80	29.2		.2	*	29.2	26.4	41.8			50.3	10592

PERCENTAGE FREQUENCY OF WIND DIRECTION

HOURS (L.S.T.)	MONTH	YEARS
ALL	JANUARY ALL	JAN 1973-DEC 1977

0

0

NO	56.8	45.9	54.5	80.0	12.1	57.5	59.5	53.7	59.4	77.01	47.0	13.0	000	80.0	03.0	51.7		No.	766	9119
BLOWING SAND AND DUST																		\bigvee		
BLOWING																		\bigvee	٠.	
SMOKE	34.4	35.1	13.0	0.0	11.0	11.0	5.6	17.9	15.3	14.3	19.0	0.0	11.09	17.3	2007	400		N N	238	19.2
ICE FOG GROUND FOG	10.4	100				9.0	100	6.5		6.5	4.0	9 . 2	3.5	3.6		6.3		X	3	5.3
5	5.5	10.2	4:1	8.0	13.0	11.0	75.2	10.0	10.0	2.1	9.5	13.9	9.9		3.4	3.4			102	2.8
THUNDER											6.6							\bigvee	~	7.
HAIL SMALL HAIL																		X		
SNOW. " GRAINS " PELLETS " SHOWERS						1.4												\bigvee	-	:
SLEET " SHOWERS ICE CRYSTALS																		X		
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE		2.1			203			3.0			6.0		3.5					X	6	
RAIN			6.9	0			2.7	4.3	1.0		14.3				6.			X	13	1.0
RAIN	5.	8.1	13.0	12.0	0.0	17.8	24.3	11.9	10.9	2:1		6.3	1.0	6.1		2.1		X	72	3.8
WIND	z	NNE	NE	ENE	W	ESE	SE	SSE	s	SSW	NS.	WSW	*	MNM	AN.	MNN	VARIABLE	CALM	TOTAL	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

0

1,240

0

0.1

PERCENTAGE FREQUENCY OF WIND DIRECTION

STATION ALAMEDAS CALIFORNIA STATION NAME STATION NAME TANKS	
IN NAME	JAN 1973-DEC 1977 FEBRUARY ALL

NO	74.3	76.7	77.8	83.3	20.0	11.0	67.2	1 99	2.29	71.8	64.3	78.3	76.4	84.0	85.9	1.4		X	693	73.8
BLOWING SAND AND DUST																		M		
BLOWING																		\bigvee		
SMOKE	15.2	13.3	3.6		10.1	1.4	0.0	3.6	1.9	10.3	3.6	10.9	8.6	0.6	3.1	8.0		X	63	4.7
ICE FOG GROUND FOG	7.6	13.3	5.6		13,3	5.9	3.3		3.0	2.6	3.0			3.0	3,1	3.4		X	4	4.1
50	2.9		11:1		6.1	12.9	6.6	10.7	10.8	10.3	10.7	8.7	6.9	5.1	1.3	4.3		Z/	69	4.4
THUNDER																		M		
HAIL SMALL HAIL																		M		
SNOW " GRAINS " PELLETS " SHOWERS				6.0														M	-	7:
SLEET " SHOWERS ICE CRYSTALS																		M		
FREEZING RAIN FREEZING DRIZZLE																		M		
DRIZZLE						2.9		3.6	3.6	2.0			2.1			1.1		M	E.	1.2
RAIN					13.3	3.7	9.9	3.6	6.3	5.1			2.1	1.3		2.2		M	56	9.5
RAIN				6.3	16.7	12.9	16.4	10.1	6.6	7.7	1.1	6.5	•	1.3	1,3	1:1		S A	62	5.5
WIND	z	NNE	NE	ENE	3	ESE	SE	SSE	S	MSS	SW	WSW	*	WNW	MN	NNN	VARIABLE	CALM	TOTAL	% TOTAL

0

TOTAL NUMBER OF OBSERVATIONS

1,128

STOW FREG. WIND DIR. VS WEATHER

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

*

L

C

ALAMEDA, CALIFORNIA 23239 STATION

JAN 1973-DEC 1977

ALL	_
	F
	S
	7
-	S
=	15
	Ŧ
	1
I	1
U	1
ARCH	
4	I
	F

NO	97.4	88.6	0.06	71.6	86.5	65.5	63.0	02.1	74.2	78.4	88.0	95.6	94.9	97.0	6.26	92.3			1085	87.5
BLOWING SAND AND DUST																		M		
BLOWING																		M		
SMOKE				14.3		5.5		2.6							7.6	1.1		X	*1	1.1
ICE FOG GROUND FOG						2.0									1.0			Y	10	4.
505		5.9	10.0	7.1		10.0	6.9	8.6	2.4	7.8	2.4		7.2	46.0	1.0	2.2		X	37	3.0
THUNDER																		\bigvee		
HAIL SMALL HAIL																		\bigvee	-	-
SNOW " GRAINS " PELLETS " SHOWERS																1.1		\bigvee	-	1.
SLEET " SHOWERS ICE CRYSTALS	7																	\bigvee		
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE		2.9					6.9	-	101	3.9	2+1		**	•		1.1		\bigvee	=	6.
RAIN		2.9		1.1	2.7	7.3	F		4.0			5.5	1.2		1.0	1:1		X	33	2.7
RAIN	1.3	5.7		1.	10.8	0.62	19.0	55.9	14.0	1.8	6.0	3.8	3.1	1.5		212		V A	79	0.4
WIND	z	NNE	. NE	ENE	3	ESE	SE	SSE	v	SSW	NS.	WSW	3	MNM	*×	MNN	VARIABLE	CALM	TOTAL	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

1,240

1

0

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

0

0

0

0

0

1

23239 STATION	ALA	ALAMEDA, CALIFORN	AL I FOR	FORNIA STATION NAME			JAN 1	JAN 1973-DEC 1977	1977 YEARS			APRIL MONTH	1	ALL HOURS (L.S.T.)
WIND	RAIN	RAIN	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW "GRAINS "PELLETS "SHOWERS	HAIL SMALL HAIL	THUNDER	509	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO
z		1.6									1.6			95.2
NNE														100.0
NE														100.0
ENE														100.0
E														100,0
ESE	4.		6.9						6.9					91.3
SE	8.4													60.5
SSE	9.6	1 3.1							3.1		3.1			84.4
S	5.6	6.8									1.4			81.9
SSW	6.8	3.6	1.8						1.8		1.8			82.1
SW	7.6								3.0		1.5			87.9
WSW	1.5								4.5					90.3
*	9.		9.						1.2	.3	. 3			90.06
WNW														66.3
**		2.3							3.5		6.3			95.3
NNN														100.0
						The state of the s								

0

1,200

1125

7º.

1.6

2.0

TOTAL % TOTAL

0

9

0

0

VARIABLE

0

STATE OF THE PARTY OF THE PARTY

0

2,

1

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

ALAMEDA, CALIFORNIA	l
Z	
8	l
=	l
4	I
-	I
A	I
HE	١
4	ı
4	I
	ı
6	

0

0

0

0

JAN 1973-DEC 1977

C

ALL	HOURS (L.S.T.)
742	MONTH

NO	100.0	87.5	100.0	100.0	0.001	100.0	93.8	80.4	31.1	0.06	93.0	92.0	10/6	7.66	7.06	0.001		1	1181	93.3
BLOWING SAND AND DUST																		\bigvee		
BLOWING																		M		
SMOKE									7.0	0.	3.0	5.5	••	9.				V	19	
ICE FOG GROUND FOG																		\bigvee		
F0G								4.5	3.5	2.0		0.5	1.1		6:1			M	1.5	1.2
THUNDER																		M		
HAIL SMALL HAIL																		M		
" GRAINS " PELLETS " SHOWERS																		M		
SLEET " SHOWERS ICE CRYSTALS																		M		
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE								604	1.8	0.4		1.0						\bigvee	5	
RAIN											0.	• •	2.					M	60	. 2
RAIN								1.6	3.6		6.							M	0	1.
WIND	z	NNE	Ä	ENE	a a	ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	WZ	MNN	VARIABLE	CALM	TOTAL	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

1,239

10

0

1

100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

The state of the s

C

ALL HOURS (L.S.T.) BLOWING SAND AND DUST JUNE BLOWING 3.4.3 SMOKE 1.0 ICE FOG GROUND FOG JAN 1973-DEC 1977 FOG 2.2 THUNDER HAIL SMALL HAIL SNOW.
" GRAINS
" PELLETS
" SHOWERS SLEET
" SHOWERS
ICE
CRYSTALS FREEZING RAIN FREEZING DRIZZLE ALAMEDA, CALIFORNIA 80-N-DRIZZLE 2.2 RAIN 4 7 RAIN WIND N N N ESE WSW WSW WNW ENE SSE SSW Ε 3 S z

0

0

0

0

0

0

0

0

TOTAL NUMBER OF OBSERVATIONS

1,200

1115

35

32

20

TOTAL %

0

0

0

0

VARIABLE

0

NNN

CALM

2

2

1

0

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

A LINE OF THE PROPERTY OF THE PARTY OF THE P

	-	
	-	
		S
	-	YEARS
A STATE OF THE STA		M
	65	7
	-	
	0	
	202	
	-	
		93
	1-46-	
	7	
	14N 1973-0EC 1977	
	-	
	7	
The second second		
	TITLE	
THE STATE OF		
	11	
and the same of th		
	23 780	
		100
		12
		100
	1000	to.
	11/4/17	
	200	
		80
	11.00	w
	500	Σ
	4	≤
	-	~
	=	z
	Z	NOI
	RNI	TION N
	JANI	FATION N
	ORNI	STATION NAME
	FORNI	STATION N
	IFORNI	STATION N
	IFORNI	STATION N
	LIFORNI	STATION N
	ALIFORNI	STATION N
	CALIFORNI	STATION N
	A. CALIFORNI	STATION N
	DA. CALIFORNI	STATION N
	DAS CALIFORNI	STATION N
	EDA, CALIFORNI	STATION N
	MEDA, CALIFORNI	STATION N
	AMEDA, CALIFORNI	STATION N
	AMEDA, CALIFORNI	STATION N
	LAMEDA, CALIFORNI	STATION N
	ALAMEDA, CALIFORNI	STATION N
	ALAMEDA, CALIFORNI	STATION N
	ALAMEDA, CALIFORNI	STATION N
	ALAMEDA, CALIFORNI	STATION N
	ALAMEDA, CALIFORNI	STATION N
	ALAMEDA, CALIFORNI	STATION N
	ALAMEDA, CALIFORNI	
	19 ALAMEDA, CALIFORNI	
	39 ALAMEDA, CALIFORNI	
	239 ALAMEDAS CALIFORNI	
	3239 ALAMEDA, CALIFORNI	
	13239 ALAMEDA, CALIFORNI	STATION STATION N
	in a self	
	23239 ALAMEDAS CALIFORNI	
	23239 ALAMEDA, CALIFORNI	

WEATHER	100.0	100.0	100.0		100.0	100.0	0.001	1000	2.88	7007	80.0	87.8	76.7	41.5	9100	100.0		X	1118	2006
SAND AND DUST																		\bigvee		
BLOWING																		\bigvee		
SMOKE										4.11	006	1.2	303	6.0	6.3				16	9.0
GROUND FOG																		\bigvee		
F0G									8.8	7.1	8 .	8.0	9.6	1.4				X	69	2.2
THUNDER																		X		
HAIL SMALL HAIL																		X		
SNOW GRAINS PELLETS "SHOWERS																		X		
SLEET " SHOWERS ICE CRYSTALS																		X		
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE										11.9	0.0	300	712	, ,				\bigvee	33	201
RAIN									5.9		9.		2.					X	*	6.
RAIN												**						X		1.
WIND	z	NNE	Ä	ENE	W	ESE	SE	SSE	Ö	SSW	NS.	WSW	A	MNM	MN	ANN	VARIABLE	CALM	TOTAL	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

1,240

o d

0

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

	(:
	(L.S.T.)
	7
-	5
-	000
	ĭ
5	
3	
9	I
=	NO
-	Σ
	1
-	
-	
DEC 197	S
	EAF
U	٨
*	
0	8
-	
-	
	9
-	
-	
7	
	1
1	10
	ž
4	×
=	z
Z	STATIO
=	3
-	'n
-	
-	
4	
O	
4	
ALAMEDA, CALIFORN	
-	
-	M
3	
4	
1457	
23239	
100	
	Z
-	T
~	Y
2	8

0

0

0

0

0

NO WEATHER	11.4	100.0			100.0	100.0	66.7	100.0	77.8	76.7	81.8	89.1	89.1	88.0	1.08	92.3			1094	88.2
BLOWING SAND AND DUST																		\bigvee		
BLOWING																		X		
SMOKE										0.7	2.1	1.9	1.9	0.0	6.9			X	32	5.6
ICE FOG GROUND FOG													2.					X	I	1.
FOG	28.6									6.7	13.6	5.7	5.3	0.0	2.8	7.7		X	77	9.5
THUNDER									9.6				c.		2.8			X	•	
HAIL SMALL HAIL																		X		
GRAINS " GRAINS " PELLETS " SHOWERS										,								X		
SLEET " SHOWERS ICE CRYSTALS																		X		
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE										6.1	9.9	4.1	3.0	6 . 2				X	39	3.1
RAIN													2.					X	-	
RAIN	14.3						33,3		16.7	3.3	1.1	104	•			1.01		N/	1.6	1.5
WIND	z	NNE	NE.	ENE	E	ESE	SE	SSE	s	SSW	SW	WSW	W	WNW	WN	NNN	VARIABLE	CALM	TOTAL	% TOTAL

1

TOTAL NUMBER OF OBSERVATIONS

1,240

•	3	2
	1	
ď	1	
	1	

ō.

œ	1
1	I
-	١
E	١
225	١
-	1

œ	١
2	١
•	I
E	١
=	۱
	۱

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

	1	-	
B	١		
200	١		
	•		
	1		
111			
	١		
	Ì		

OL
123
•
E
125
-
w

œ	
125	
E	
-	

œ	
2	8
X	
125	

	1
EXBER	ТН
-	MON

RAIN	RAIN	DRIZZLE	FREEZING	SLEET " SHOWERS	SNOW "GRAINS "PELLETS	HAIL	THUNDER	õ	ICE FOG GROUND	SMOKE	BLOWING	SAND	ON
	SHOWERS			CRYSTALS	" SHOWERS				FOG	HAZE	SNOW	DUST	WEATHER
													100.0
													100.0
													100.0
100.0								100.0					
													100.0
		9.1						9.1					81.8
	8.3												41.7
2								1.1					85.7
20	2.4	201						8,3		6.3			1.11
7	2.3	4.5						6.8		2.3			84.1
	3.3	3.3						9.9	1.0				83.6
9.	1.2	3.0						7.8	1	3.0			83.8
20	7.	1.0						5.8	20	2.0			88.2
								9.4		1.6			82.1
		1.9						5.8		4.1			400
2 . 6	9.2	2.0						9.6		9.6			11.0
1	X		X	X	X	X	X		X		\bigvee	X	M
6	01							81	2	94			1034
6.		0.2						9.9	2.	3.8			86.2

TOTAL NUMBER OF OBSERVATIONS

1,200

S.T.)

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

OCTUBER ALL	H HOURS (L.S.T.)	BLOWING NO SAND NO AND NO AND NETHER	ISOO	85.3	89.7	9.08	100.0	96.	83.1	68.6	9.69	16.6	85.8	6.58	88.8	87.	618	60.60	15.6			-
120	T L NOO Y	SMOKE BLOWING		5.9	3.6	10.0			6.3		7.0	3.1	3.4	2.6	2.5	7.3	1.1	6.9	7.0			
1977	on cc	FOG GROUND	-	2.9	3.4 3.4				4.2	17.1	3.7	3.1	3.4	7.9	1.9	6.5	2.3 1.5	6.3	3.5		X X	
JAN 1973-DEC 1977	Y E B R R S	THUNDER														6.						
NAS		SNOW HAIL GRAINS SMALL SWALL SCHOWER	"SHOWER HAIL																		X	
		SLEET " SHOWERS ICE																			X V	
ALAMEDA, CALIFORNIA	4 A A 1 1 0 A A A 1 1 0 A A A A A A A A A	FREEZING RAIN DRIZZLE FREEZING									3.7				6.6	6.0					\ \ \	
AMEDA, C.		RAIN		1.5		10.0			6.3	.7	111 111		3.4 6.9	.8 3.2		9.	9.	2.4				
23239 ALI		WIND		z	NNE	NE	ENE	3	ESE 8	SE 25.	SSE 11.	9 s		⊕ MS	WSW	*	WNW	MN	MNN	VARIABLE	CALM	

TOTAL NUMBER OF OBSERVATIONS

1,240

WEATHER

BLOWING SAND AND DUST

BLOWING SNOW

SMOKE HAZE

ICE FOG GROUND FOG

FOG

THUNDER

HAIL HAIL

SNOW GRAINS PELLETS SHOWERS

SLEET
" SHOWERS
ICE
CRYSTALS

FREEZING RAIN FREEZING ORIZZLE

DRIZZLE

RAIN

RAIN

WIND

0

N N N

0

ENE

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

0

1

JAN 1973-DEC 1977 ALAMEDA, CALIFORNIA 23239 STATION

0

0

0

HOURS (L.S.T.) ALL NOVEMBER

																X		
6.62	6.13		30.0	13.2	6.6	0.0	6.0	13.9	6.01	0	10.0	:	12.0	11.0	11.3		157	13.1
0.0	106	1:6	10.0	5.3		3.1		30.7	602		0.7	•	3.5	200	1.0		51	

57.50 50.00

3.1

3.7

0.0

SE SE SSE

7:1

1.8

SSW SW WSW

TOTAL NUMBER OF OBSERVATIONS

1,200

852

X

X

8.1 9.6

00

99

900

TOTAL % TOTAL

0

0

0

2

CALM

NNW

MNM

*

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

		-
	DECEMBER	MONTH
VS. WELLINES CONDITIONS	JAN 1973-DEC 1977	YEARS
ń ,	ALAMEDA, CALIFORNIA	STATION NAME
	23239	STATION

NO	62.6	41.7	50.0	66.7	61.4	24.1	52.1	47.6	40.3	26.0	34.8	20.0	0.40	62.1	38.5	45.6	4 4 7	XX	629	20.4
BLOWING SAND AND DUST																		M		
BLOWING																		\mathbb{N}		
SMOKE	17.4	20.8	16.7	20.0	22.8	2.8	1.1	12.7	10.4	20.0	17.0	6.21	10.9	13.1	9.22	18.		Š.	205	10.5
ICE FOG GROUND FOG	4.3	4.2		6.7	7.0	1.6	5.3	7.9	4.5	0.,	6.4		4.6	2.0	100	14.2		X	*	9.0
F0G	9.7	16.7			5.3	19.7	14.9	9.5	4.22	12.0	30.4	20.8	3.1	9.8	20.3	12.3			184	14.8
THUNDER						1.0	3.2											\bigvee	•	r.
HAIL SMALL HAIL																		M		
GRAINS "GRAINS "PELLETS "SHOWERS																		M		
SLEET " SHOWERS ICE CRYSTALS																		M		
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE		4.2				1.6			0.0			204			3,3	9.		X	1.8	1.5
RAIN							4:3	3.2	1.5	•:0								M	•	9.
RAIN	5.6		6.3		5.3	9.9	12.8	11:1	13.4	12.0	21.7	20%		2.0	3.3	9.		S/	9	4.8
WIND	z	NNE	Ä	ENE	W	ESE	SE	SSE	v	SSW	NS.	WSW	*	MNM	AN.	ANN	VARIABLE	CALM	TOTAL	% TOTAL

0

TOTAL NUMBER OF OBSERVATIONS

1,240

0

ALL HOURS (L.S.T.)

ALL

JAN 1973-DEC 1977

ALAMEDA, CALIFORNIA

23239 STATION

0

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

11854			2 22	R ===		7					1.52 190	1 152 190
	7110	•	•••				•	3	•	•	60	
	10.0		5.3	-								
	4 6	20		:	-	•					- N	
9	3.7	-:	0:0								717 00	717 00
63.	0.0	•	7.5	8.						902	0.5 6.1	1.5
-	0.0		2.0	2								C 2
0.60				7:								
03.6	1.0		10.3							7.		9.4
0.60	2.0		10.3	•				•		10.3	6. 6.1 6.1	e. I.o
75.0	10.0	307	3.6									
77.0	6.9	1+2	6.3				1.1	1.1	1.91			
67.6	19.1	6.2									2	2
71.7	14.3	200	0.1							E+1		
74.8	1001	6.6	6.3								2.	. 9 . 2
SAND NO AND WEATHER	SMOKE BLOWING HAZE SNOW	GROUND FOG	50	THUNDER		SMALL		"SHOWERS "GRAINS HAIL ICE "SHOWERS HAIL CRYSTALS "SHOWERS HAIL	" GRAINS " PELLETS " SHOWERS	" SHOWERS " SHOWERS CRYSTALS " SHOWERS	FREEZING ICE "SHOWERS "PELETS PELETS CRYSTALS "SHOWERS	DRIZZLE FREEZING ICE "SHOWERS "SHOWERS DRIZZLE CRYSTALS "SHOWERS

NAVWEASERVCOM

0

TOTAL NUMBER OF OBSERVATIONS

0

PART B

PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION

NOWFALL*

SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

DERIVED FROM DAILY OBSERVATIONS

DERIVED FROM DAILY OBSERVATIONS

- The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual may be misleading. ;
- The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing. ö

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Snow depth at 0800 LST Snow depth at 1230 GCT Snow depth at 1200 GCT	Snow depth at 1030 GCT Snow depth at 1230 GCT Snow depth at 1200 GCT
From beginning of record thru 1945 Jan 46-May 57 Jun 57-present	From beginning of record thru Jun 52 Jul 52-May 57 Jun 57-present
Air Force Stations	J. S. Navy and Weather Bureau Stations

* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,

-

-

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF PRECIPITATION (FROM DAILY OBSERVATIONS)

0-

						AMC	AMOUNTS (INCHES)	(CHES)						FMECOSO		MOM	MONTHLY AMOUNTS	UNTS
PRECIP.	NON	TRACE	5	.0205	0190.	.1125	.2650	.51.1.00	1.01-2.50	2.51-5.00	9.01.10.00	10.01-20.00	OVER 20.00	2.51-5.00 5.01-10.00 10.01-20.00 OVER 20.00 OF DAYS	NO.		(INCHES)	
SNOWFALL	NON	TRACE	0.1-0.4	0.5.1.4	1.5.2.4	2.5.3.4	3.5.4.4	4.5.6.4	4.5.10.4	10.5-15.4	15.5.25.4	25.5-50.4	OVER 50.4	MEASUR-	9 o	7497	1381 7860	IPAST
SNOW.	NON	TRACE	-	2	•	4.6	7.12	13.24	25.36	37.48	49.60	61-120	OVER 120	AMTS				
NAL	1.06	4.0	2.5	0.0	3.2	6.9	9.9	5.1	2.6	.1				32.5	930	3.51	8.42	.26
9	1.05	9.8	1.0	5.2	4:3	9.5	5.5	4.3	6.					30.5	847	2.26	Victoria de	7.18TRACE
MAR	2.09	11.0	1.6	6.7	3.1	9.9	5.5	3.7	1.0					27.9	992	2.31	**	7.67TRACE
APR	72.3	10.2	1.4	:	2.8	3.5	3.3	3.6	**					17,5	930	1.19	16500	S.4STRACE
MAY	17.5	15.0	••	2.1	1.8	1.6	6.	.2						7.5	961	.35	S. S. T.	3.41TRACE
NOT	1.18	81.1 15.4	••	8.		9.	.2	.2						3.4	960	.14	Section 18 and 18	1.19TRACE
10	79.0	19.5	.2	6.	:	.1	•1	1.						6.	992	.05	•	75TRACE
VIO	74.4	22.8		6.	4.	• •	•1							2.8	961	•00		. BBTRACE
36	83.3	13.1		1:1				.2		.1				3.5	990	.23	2.38	.00
00	78.4	9.3	1.5	3.4	1.6	2.1	1.8	1.2	.,	.1				12.4	961	1.12	Acres 1994	B. IBTRACE
NON	66.8	8.2	2.3	4.2	3.0	5.6	5.1	3.4	1.5					25,1	930	2.30		7.86TRACE
DEC	60.2	9.6	2.0	5.8	3.2	6.2	6.0	4.8	1.9	.1				30.2	992		3.1011.06	.18
ANNUAL	ANNUAL 71.0 12.8	12.8	1.3	3.4	2.1	3.5	2.9	2.1	100	••				16.2	5 4 5 5 5 6 7 7	1144616.62	X	X

NAVWEASERVCOM

.

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOWFALL (FROM DAILY OBSERVATIONS)

0

						*	AMOUNTS (INCHES)	NCHES						77		NOW	MONTHLY AMOUNTS	Z
PRECIP.	MOM	TRACE	10.	.0205	0190.	.II25	.2650	.51.1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	2.51-5.00 5.01-10.00 10.01-20.00 OVER 20.00 OF DAYS	OF DAYS	NO.		(INCHES)	
MOWFALL	NON	TRACE	0.1.0.4	0.5.1.4	1.5.2.4	2.5.3.4	3.5.4.4	4.5.6.4	4.5.10.4	10.5.15.4	15.5.25.4	25.5.50.4	OVER 50.4	MEASUR-	9 o	1		
SNOW.	NON	TRACE	-	1	•	4.6	7.12	13.24	25.36	37.48	49.60	61-120	OVER 120	AMTS		L COM	OREAIRS	3
NAL	:	•													992	TRACE	992TRACETRACE	.0
	49.5	.9													875	TRACE	BTSTRACETRACE	•
MAR	9.7	. 3													930	TRACE	930TRACETRACE	•
*	100.0														960	0.	0.	0.
MAY	100.0														1023		0.	
3	100.0														990		0.	
¥	100.0														1023	•	•	
AUG	100.0														1023	0.	0.	•
	100.0														990	0.	0.	
8	100.0	100 C 100 C		TW FE	- Service	State of the state of	Pally Respect						100 m (100 m)		1023	•	••	•
Š	*	.2													960	TRACE	960TRACETRACE	
2	99.5	.5													1023	TRACE	1023TRACETRACE	••
ANNUAL	1 99.6	.2													11812	0.	X	X

NAVWEASERVCOM

0

0

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOW DEPTH (FROM DAILY OBSERVATIONS)

ALAMEDA, CALIFORNIA

48-77

YEARS

						AA	AMOUNTS (INCHES)	(CHES)								1	2 2 2 10	
PRECIP.	NONE	TRACE	10:	.0205	0190.	JB25	.2650	.51.1.00	1.01-2.50	2.51-5.00	9.01-10.00	2.51-5.00 5.01-10.00 10.01-20.00 OVER 20.00 OF DAYS	OVER 20.00	OF DAYS	NO.		(INCHES)	200
SNOWFALL	NON	TRACE	0.1-0.4	0.5-1.4	1.5.2.4	2.5.3.4	3.5.4.4	4.5.6.4	4.5.10.4	10.5.15.4	15.5.25.4	25.5-50.4	OVER 50.4	MEASUR-	5 6			
SNOW.	NON	TRACE	-	1	9	4.6	7.12	13.24	25-36	37.48	49.60	61-120	OVER 120	AMTS	j	MEAN	GREATEST	LEAST
NAL	99.8	• 5													899			
2	100.0														819			
MAR	100.0														868			
APR	100.0														870			
MAY	100.0														899			
NOT	100.0														870			
Ħ	100.0														868			
AUG	100.0														899			
SEP	100.0														840			
סכו	100.0														868			
NON	100.0														870			
DEC	100.0														086			
ANNUAL	ANNUAL 100.0	0.													10531		X	X

NAVWEASERVCOM

)

8

FROM DALLY OBSERVATIONS

24 HOUR AMOUNTS IN INCHES

ALAMEDA, CALIFURNIA STATION NAME

WEAR	JAN.	188.	MAR.	APR.	MAY	JCN.	JOL.	AUG.	SEP.	OCT.	NOV.	DEC.	MONTHS
33	1.47	19.	14.	.02	.29	TRACE	A	TRACE	TRACE	18.	1.24	.68	
-	38		.65	*0.	04.	NO	TRACE	TRACE	PAC.			1.20	
04	. 92	8.	1.08	TRACE	.32	RAC		C	TRACE	.20	-		
90	1.71	69.	1.23		.47	U	AC	TRACE	TRACE	1.29			1.71
51	. 89	1:	69.	. 58	.59	RAC	TRACE		TRACE	.71	1.21		1.55
52			.92	.21	.16		AC	TRACE	TRACE	.05			
53	. 52		.56	1.33	.10	4	AC	7	TRACE	.13	10.1		
3,5	. 89	.7	86.		.13	0	0	.02	TRACE	.08	99.	1.14	-
55	.63	68.	.25	.20	100	TRACE	6.3	AC	TRACE	.05	. 48		
36	1.92	.73	TRACE	. 83	. 36	0	. 5	AC	.10	. 57	.05		
57	. 95	0	649			-	2 3	TRACE	1.05	1.38	. 23		
36	.92	1.15	1.24	1.25	.12	0	. 1	A	.08	.0.	*0.	. 68	2
59	-	0	.14	.24	10.	RAC		0	2.53	TRACE	TRACE		3
09	-	.92	.62	.25	-23		. 3	TRACE	TRACE	.29	1.18		7
61	-	~	1.00	.41	04.	RAC	. 3		.30	*0.	. 95		-
62	35.	*	.57	.25	TRACE	RAC		.07	.24	3.34	.34		
63	~	0	1.61	86.	. 33	RAC		0	60.	. 31	1.00		
**	1.35	7	69.	.02	.05	-		0	TRACE	40.	1.97		
65		-	.56	99.	TRACE	TRACE	TRACE	.03	TRACE	11.	69.	1.12	-
99	-	.65	.26		•10	-	0	.11	.10	TRACE	. 93		
10			.75	1.84	10.	6.	RAC	10.	.02	.34			9.
90	1.08	19.	1.34	.37	.07	TRACE	RAC	.08	10.	.17	1.00	. 56	.3
69			.34	.83	TRACE	O	RAC	RAC	+0.	1.90		1.89	6.
10	1.23		.78	.03	.03	1	RAC	RAC	00.	. 31	1.09	36.	~
11	24.	.15	1.06	.29		TRACE	TRACE	TRACE	.15	.03		.78	1.06
72	.39		.05	.37		N	RAC	RAC	.51	1.75	1.16	.79	-
73	1.59	1.17	68.	10.	0	TRACE	RA	AC	.21	09.		1.34	
74		.54	. 79	1.23	TRACE	C		RAC	TRACE	.34	. 22	•	~
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

·ND

19165

0

0

0

0

0

0

0

ŧ

ī

EXTREME VALUES

FROM DALLY OBSERVATIONS)

ALAMEDA, CALIFORNIA STATION NAME

0

0

0

0

0

24 HOUR AMOUNTS IN INCHES

MONTHS	1,25	1.667	1.59
DEC.	. 35	2	8 189.
, 0 v	. 34	Fe :	8 1 1 6 9
OCT.	1.19		86.1.
SEP.	TRACE.	2	1.4.0
AUG.	.04	10.	60.0
JUL.	510	T Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1610
ž.	600	A A A C E	11.2.17
MAY	TRACE	#•	91.2.
APR.	004	C.	080
MAR.	1.25	72.1	94.5
Ę	33		59:50
JAN.	- **	2	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
YEAR	22		MEAN S. D. TOTAL OBS.

NAVWEASERVCOM

0

0

0

EXTREME VALUES

PRECIPITATION

C

0

45-77

ALAMEDA, CALIFORNIA STATION NAME

/BASED ON LESS TIAN FULL MONTES

ALL	PRECIP	PRECIP	PRECIP	PRECIP	PRECIP								
DEC.	3.53												
NOV.			29.						***************************************				
OCT.			1.09	30									
SEP.													
AUG.	;	TRACE	TRACE										
JUL.	TRACE 30												
NON	.00												
MAY	.32			*0									
APR.	28			25.08									
MAR.				. 59									
5			. 92	15.2									
. IAN.			1.07		1.02								
MONTH	5	9.	+	48	25				1		MEAN	S. D.	TOTAL OBS.

NAVWEASERVCOM

9

0

3

1

0 Ó NO 181659

0

SNOWFALL FROM DAILY OBSERVATIONS

ALAMEDA, CALIFORNIA STATION NAME

0

0

0

0

24 HOUR AMOUNTS IN INCHES

JAN.	Ę	MAR.	A	MAY	, S	JE.	AUG.	SEP.	OCT.	NOV.	DEC.	MONTHS
-			0.	0.	0.	•	0.	0.	0.		•	
0	•	•		•	0.	•	•	•	•	•	0.	
Ö	0.		•	•	0	0.	0.	•	0.		0.	
0			•	•	•	•	•	•	•	•	•	
0	0.	0.	0.	•	0.	0.	0.	0.	0.	•	0.	•
0	•	•	•	•	•	•	0.	•	0.	•	0	•
3	TRACE	0	0.	0.	0.	0.	0.	0.	0.	•	0.	TRACE
0	•	°.	•	•	0.	•	•	•	•	•	0.	•
0	0.	•	•	•	•	0.	0.	0.	0.	•	o.	0.
0	•	•	•	•	•	•	•	•	0.	•	0.	0.
0	TRACE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	TRACE
0	•	•	•	0.	•	•	•	0.	0.	•	•	•
20	•	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	TRACE
0	•	•	•	0.	•	•	•	•	0.	•	0.	0.
0	0.	0.	•	0.	0.	0.	0.	0.	0.	•	0.	0.
0	•	•	•	•	0.	•	•	•	0.	•	0.	•
0	0.	0.	•	0.	0.	•	•	0.	0.	•	0.	•
CE	•	•	•	•	•	•	•	•	•	•	0.	TRACE
0	0.	•	0.	•	0.	0.	0.	0.	0.	0.	0.	•
0	•	•	•	•	0.	•	•	•	•	0.	•	•
0	•	0.	0.	•	•	•	0.	•	0.	TRACE	•	TRACE
0	•	•	•	•	•	•	•	•	•	•	9	•
0	0.	TRACE	•	0.	0.	•	0.	0.	0.	TRACE	TRACE	TRACE
30	•	0.	0.	•	0.	0.	•	0.	•	•	TRACE	TRACE
0	•	0.	0.	•	•	•	0.	0.	0.	0.	0.	0.
0	•	•	•	•	•	•	•	•	0.	•	TRACE	TRACE
30	0.	0.	0.	•	0.	•	0.	•	0.	•	0.	TRACE
0	TRACE	•	•	•	•	•	•	•	•	•	•	TRACE
0	0.	•	•	•	0.	•	•	0.	0.	0.	0.	0.
	0	0	•	••	••	0.	•	•	0.	•	0.	TRACE

NAVWEASERVCOM

1

SNOWFALL
(FROM DALLY OBSERVATIONS)

0

ALAMEDA, CALIFORNIA STATION NAME

NI

191663 o

0

0

0

0

24 HOUR AMOUNTS IN INCHES

ALL	TRACE	•	00.	11812
DEC.	00	e.	TRACE	1023
NOV	00	•	TRACE	0000
OCT.	•••	0.	00.	1023
SEP.	00	•	00.	000
AUG.	00	•	00.	1023
Ę.	00	•	00.	1023
JGN.	00		00.	0000
MAY	00	•	00.	1023
APR.	00		00.	0000
MAR.	TRACE	•	TRACE	930
Ę	TRACE	•	TRACE	673
JAN.	00			000
YEAR	25		MEAN	S. D. TOTAL OBS.

0

0

0

NAVWEASERVCOM

0

4.4

The second of th

SNOWFALL
FROM DAILY OBSERVATIONS

45-77

ALAMEDA, CALIFORNIA STATION NAME

O

/BASED ON LESS THAN FULL MONTHS/

NAVWEASERVCOM

1 0

EXTREME VALUES

SNOW DEPTH

DAILY SNOW DEPTH IN INCHES

ALAMEDA, CALIFORNIA STATION NAME

AR	JAN.	Ę	MAR.	APR.	MAY	, S	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MONTHS
649													
4.0												0	
64	6	0	0	0		0	0	0	0	0	0	0	0
50	0	6	0	0		0	0	0	0	0	0	0	0
31	0	0	0	0		0	0	0	0	0	0	0	0
52	Ó	ō	0	•		0	0	0	0	0	0	0	0
53	0	Ö	0	0		0	0	0	0	0	0	0	0
34	ő	0	0	•		0	0	0	0	0	0	0	0
55	0	0	0	0		0	0	0	0	0	0	0	0
36	6	0		•		٥	0	0	0	0	0	•	
37	TRACE	0	0	0		0		0		0	0	0	
98	0	0	0	0		0	0	0	0	0	0	0	0
99	6	0	0	0		0	0	0	C	0	0	0	0
90	0	0	0	0		0	0	0	0	0	0	0	0
19	0	0	0	0		0	0	0	0	0	0	0	0
62	0	0	0	•		0	0	0	0	0	0	ò	0
63	ō	0	0	0		0	0	0	0	0	0	0	0
	0	•	0	0		0	0	0	0	0	0	0	0
69	ō	0	0	0		0	0	0	0	0	0	0	0
66	ō	0	0	0		0	0	0	0	0	0	0	0
67	0	0	0	0		0	0	0	0	0	0	0	0
:	0	0	0	0	STATE STATE OF	0	0	0	0	0	0	0	0
:	0	0	0	0		•	0	0	0	0	0	0	0
70	ō	0	0	0		0	0	0	0	0	0	0	0
71	TRACE	0	0	0	0	0	0	0	0	0	0	0	TRACE
72	6	0	0	0		0	0	0	0	0	0	0	0
73	0	0	0	0		0	0	0	0	0	0	0	0
75	O	0	•	0		0	0	0	0	0	0	0	0
MEAN													
S. D.													
AL OBS.													

NAVWEASERVCOM



















SNOW DEPTH

ੂ

ALAMEDA, CALIFORNIA STATION NAME

C

DAILY SNOW DEPTH IN INCHES

ALL	00		000.
DEC.	00	0	0.000
NO.	00		0.00.0
OCT.	00	0	0.00
SE.	00		0.00
AUG.	00	•	0.00
J.	00		0.00
JUN.	00		0.00.
MAY	00		0.00.8
APR.	00		0.00.0
MAR.	00		0.000
Ę	00		0.00
JAN.	00		- 000 8 9 9
WEAR	2,2	F	MEAN S. D. TOTAL OBS.

0

0

0

0

0

0

0

0 0

NAVWEASERVCOM

**

1

SNOW DEPTH

0

/BASED ON LESS THAN FULL MONTHS!

48-77

YEAR	JAN.	Ę	MAR.	**	MAY	, NOT	JU.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL
45			0	0	0	0	٥	ò	0	0	0	•	SNO OPTH
04	•	•	•	0	0	0	0	ò	•	0	0	0	SNO DPT
**	Ö	•	•	•	0	0	ŏ	ō	0	0	•	0	SNO DPTH DAYS
99	ŏ	•	0	o	0	٥	0	Ö	٥	•	۰,		SNO DPT
36			300										SNO OPT
97							30		29				SNO DPTH DAYS
				4000				A Secondary Spice			4.0		
MEAN													
S. D.													1
TOTAL OBS.													

្ជិ

NAVWEASERVCOM

ALAMEDA, CALIFORNIA

19161

0 0

0

0

63

0

0

OBO

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

ALAMEDA, CAL I FURNIA

23239 STATION

O

STATION NAME

JANUARY

0

0

O

0

0

0

0

1946-1977

YEARS

FEBRUARY

	DATE			1972		1976															The state of						1955						1976:
SNOWFALL	MM			-		-																					-						•
ชอ	INCHES			•		-																					•						•
Z	DATE	1960	1946	1966	1951	1969	1973	1958	1960	1962	1959	1969	1963	1954	1962	1962	1968	1959	-23	1956	1959	1957	1956		1949	1969	1955	1973	1969	1976			1991
PRECIPITATION GREATEST	MM	18	15	17	38	26	30	15	11	36	23	28	27	18	35	13	15	10	29	15	13	16	19	19	*	10	23	19	15	15			38
PREC	INCHES	0.71	19.0	0.65	1.48		1.17	0.59	99.0	1.43	26.0	1.11	1.05	0.71	•	0.51			-	0.58			0.73	•		•	0.89	0.76	19.0	19.0			1.48
>40		1	. 2	8	4	2	9	1	8	6	10	1	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29	30	31	Monthly

DAY .								-)		2								20		22 (25			28	29	30	31	Monthly
¥	INCHES	0.71	0.92	1111	29.1	70.1	99.0	25.0	1.58	90°1	66.0	+2.1	66.0	11.1	76.1	1.26	1.59	.71	1.16	1.12	1.88	89.2	0.32	26.0	91.1	01.1	09.0	0.74	100	16.1	90.	72.	99
GREATEST	MM	18	23	28	37	26	17	13	64	26	52	31	77	28	*	32	40	43	29	28	4.8	19	•	23	29	28	11	19	27	38	27	31	99
No.	DATE	1958	1977	1074	9961	6661	1975	1953	1973	1973	0561	1973	1951	6961	1956	1956	1973	1950	1969	6961	1961	1961	1956	1958	6667	1961	1969	1950	1961	1966	1968	1963	1961
	INCHES										•										100	•			E TOTAL STATE			•	•				•
GREATEST	MM												1									1						-	1				-
	DATE			1974								1681	1971									1962						1968	1987	7			1976*

• ALSO ON EARLIER YEARS T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

=

19764

DATE

MM

INCHES

1947

MM

INCHES 0.57

DAY

0

0

0

9261 47

1941

0000

0

20 1975

0.94

0

1949

0.43

9

0

0.63

= 12

0

1967

2961 1

19 1979 1968

SNOWFALL

PRECIPITATION

DAILY EXTREME AMOUNTS

1945-1977

STATION NAME

MARCH

AL AMEDA, CAL IPORNÍA

23239 STATION

NAVAL WEATHER SERVICE DETACHMENT

ASHEVILLE, NORTH CAROLINA

YEARS

	314	MONTH
•		1

ď	INCHES	1.23	2 1.25	3 0.44	0	•	1.84	0	ò	99.0 6	ò	11 0.46	12 0.09	13 0.41	•	15 0.55	16 0.27		18 0.39	ò	•	•	22 0.15	•	•	25 0.82	·	27 1.33	0.3	29 0.22	30 0.66
PRECIPITATION GREATEST	MM		35	=	13		1.0	-	2	17	15	12		10	*1	14		15	01		01	1		13		12		34	15	9	
NOL	DATE	1974	1958	1958	1975	6961	1961	1950	1965	1965	19	1956	197	1957	1963	1967	1957	19	_		2	1961	1961	1961	1972	1963		1953	1661	767	1953
SO	INCHES																														
SNOWFALL	MM																														
	DATE																														

1975*

1934

1961

1.23

14

13

15

11

18

0

19

E O

1975

2 2

0

24 23

0

22

1953

1945

1963 1961

19:1

0

92 27

25

AR	+
YE	1
EB	0
* ALSO ON EARLIER YEAR	T TIMI CAM IN POACT
NE	-
ō	000
V LS	F
	۲
14	

19754

1946

0.74

31

30

0

19:1

6

0.69

6961 19

T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

0 0

1945-1977

AL AMEDA, CAL IFORNIA

STATION NAME

STATION 23239

O

0

MONTH

MAY

NAVAL WEATHER SERVICE DETACHMENT

ASHEVILLE, NORTH CAROLINA

YEARS

SNOWFALL Σ MONTH

DATE

M

INCHES

M

DAY

0

0

0.00 0.59

1957

60.0 0.09

1961

0.09

0

1957

0.046

=

12

0

9

-- 4.1

SNOWFALL

PRECIPITATION

DATE

	INCHE													
Z	DATE	1961	1961	1974*	1947	1961	1953	1947	1970	1972	1948	1976#	1661	1070
PRECIPITATION GREATEST	MM	2	25	-	2	•	==	*	14	9		-	-	
PR.	INCHES	90.0	0.97	1	0.08	0.16	0.43	0.15	0.57	0.23	10.0	-	0.03	
	VAY	1	2	3	4	2	9	7	00	6	10	11	12	1

10	72	8 4	19761	24	178	17.	19	17*	
4	61	19	61	67	61	61	19	61	l
=	9		•	7	1	•	1	4	
0.57	0.23	10.0	1	60.0	- 1	•	0.02		
8	6	10	11	12	13	14	15	91	

		Dr.	Er I St			
19/70	1961	1977*	1977	1974	1977*	19754
	1	4	•	2	1	
-	0.02			90.0	1	
3.3		0			S	200

16 17

1949

0.20

17

18

0

1961

1958 1960

0.00

8

19

21

0

22 23

19498

0.16

14

15 16

13

1945

18

19 2 2

0 0

0.06	2
1	ı
1	
1	4

-	•	•		•
_	1	10 mm	0.03	•
110	12 8			1

1975

1969*

1971*	1971	1952	1952	1964	1977
1		2	9		•
1	1	80.0	62.0		1
25	26	27	28	29	30

1973	1973	1975	1971	1971	1952	1952	1961	1979
•	•	-	-		2	•		
1	· · · · · · · · · · · · · · · · · · ·	60.0	-	•	80.0	0.23	•	
22	23	24	25	26	27	28	29	30

1974 1948

1948

0.00

30

28

53

27

0

1961

0.12 1.39

31

0

1937

1946

0.29

24 32 22

0

4961 62 0.97 Monthly 31

* ALSO ON EARLIER YEARS T - TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

Ö

DIRNAVOCE ANMET - SMOS

1945-1977

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

AL AMEDA, CAL I FORNIA

23239 STATION

90

Q

0

STATION NAME

JULY

DATE

Z

INCHES

1969¢

M

INCHES

DAY

0

1977# 1955

10.0

0

1975#

19754

1966

20.0

10 == 12

0

1964#

1964

0.15

0

14 15 16 11

13

10.0

1976#

1975#

2

21

0

22 23 24 25

19

18

0

1975#

1977#

1977#

1954

20.0

0

1971#

1972#

1974#

9 1974

0.75

9

0

1965#

SNOWFALL

PRECIPITATION

YEARS

		DATE																															
	SNOWFALL	MM																															
₽.	600	INCHES																															
AUGUST	Z	DATE	1977#	1976#	1976#	1974#	1977*	1977*	10501	1963#	1962	1977*	1965	1976#	1976#	1976	1976	1975#	1976	1976	1961	1968	1968	1976	19774	6561	1979*	1961	1949	1975*	1951	9961	1964
	PRECIPITATION GREATEST	MM	-	•	-	-	•	•	•	1	2	-	-	•	-	2	5	1	,	8			2			1		1	2		3	3	
	PRE	INCHES	•	-		-	-	•		20.0	20.0	1	0.03			0.19	0.21	1	0.15	0.32	10.0	10.0	0.08	0.01		20.0	10.0	0.02	90.0		0.12	0.11	0.01
	?	VAY	1	2	3	4	2	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

10

9

0

* ALSO ON EARLIER YEARS T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

400

0

DIRNAVOCE ANMET - SMOS

ALAMEDA, CAL IFORNIA

23239 STATION

NAVAL WEATHER SERVICE DETACHMENT

107

7

ASHEVILLE, NORTH CAROLINA

STATION NAME

SEPTEMBER

SNOWFALL	CDEATEST
ATION	101

GREATEST	GREATEST		S S	SNOWFALL	
INCHES MM	DATE		INCHES	MM	DATE
-	T 196	14			
-	7 197	1.			

DAY

0

Q

7

0

1945-1977

YEARS

200		
-		
-		
		20.7
		11
		N.
	The second secon	
	The second secon	
	The second secon	
	The second name of the second na	
	The second name of the second na	
	The second name of the last of	
	The second name of the last of	
	The second name of the last of	
	The second name of the last of	
	The second name of the last of	
	The second name of the last of	
	The second name of the last of	
	The second name of the second na	

OCTOBER

DATE SNOWFALL Z PRECIPITATION

700				
	INCHES	MM	DATE	INCHES
-	0.37	6	1976	
2	0.34	6	1961	
8	10.0		1946	
4	•	•	1968*	
2	0.29	1	1960	
9	0.08	?	1973*	
7	0.29	7	1973	
8	0.17	3	1973	
6	1.19	30	1975	
10	1.38	35	1957	
11	1.97	90	1962	
12	2.36	09	1962	
13	3.54	06	1962	
14	0.71	18	1972	
15	1.90	48	1969	

1963#

1976

1963#

1975

1969

0.04

9

0

2

1976# 19764 1968

10.0

14 15 16

0

13

1961

1959

2.53

18 19

0

11

19 1977

19754

1963

20.0

12

0

=

9

6

0

00

Į			2.3		EC.	120			100	
	09	06	18	48	13	-	3	2	9	2
The second secon	2.30	3.54	0.71	1.90	0.52	0.02	0.13	90.0	0.25	
								19		H

1972

•	1	3	2	9	13	15	8	
3000	0.02	0.13	90.0	0.25	0.51	09.0	0.32	-
91	17	18	19	20	21	22	23	

3	6561	1954	0161	0161	1973	8 1957	
•	2	2	0	13	15	30	
	0.13	90.0	0.25	0.51	09.0	0.32	-

1070	4		-	-	۲
15	8	18	33 16	10	0
09.0	3.32	14.6	1.29	3.38	70

1977#

1945

0.11

22

5 1973

0.21

20 21

0

1973

0.04

24 25

23

13 1972

1.05

0

26 27 3 1976

0.15

29 58 30

1962

64 1959

2.53

Monthly

(1)

31

(

	1957	1981	1950	1950	1974	1961	16 1964	
	30	18	33	10	0	16	16	
-	0.32	0.71	1.29	0.38	0.34	49.0	0.62	

-				-		-	-
1661	0961	1950	1974	1964	1964	-	1974
18	33	10	6	16	16	12	*
0.71	1.29	0.38	0.34	49.0	0.62	0.81	0.15
24	25	26	27	28	29	30	31

DIRNAVOCE ANMET - SMOS

0

* ALSO ON EARLIER YEARS T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

ALAMEDA, CAL IFORNIA

23239 STATION

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION NAME

NOVEMBER

		DATE
	SNOWFALL	****
	86	OTHER PARTY
	NO.	22.00
	PRECIPITATION GREATEST	****
-	E	None of

0

0

0

0

0

0

DATE INCHES MM GREATEST 1964 INCHES MM I 965 I 965 I 966 I 9

0

DECEMBER YEARS

MONTH

	DATE		1970															1970		1961			1968			1968							1970*
SNOWFALL	MM		-																	1			1			1							-
ชื่อ	INCHES		-															-					1			4							•
Z	DATE	1981	1970	1950	1945	1945	1952	1952	1955	1954	6961	1965	1971	1950	1979	1962	1962	1977	1972	1952	6961	1948	1955	1959	1946	161	1973	1945	1661	1952	1976	1954	1952
PRECIPITATION GREATEST	MM	37	52	14	21	34	76	56	10	59	6	71	10	13	14	2.7	20	12	11	36	48	36	14	41	1.1	20	34	06	36	15	19	21	56
PRE	INCHES	1.46	86.0	1.60	0.83	2.11		1.02	99.0	1.14	0.34	14.0	0.39	0.53	0.56	1.08	0.80	0.83	94.0	1,41	1.89	1.35	1.86	1.62	99.0	0.78	1.34	3.53	1.55	0.58		64.0	3.69
	DAY	-	2	3	4	2	9	7	8	6	10	11	12	13	14	15	16	- 17	18	19	20	21	22	23	24	25	56	-27	28	29	30	31	Monthly

• ALSO ON EARLIER YEARS T – TRACÉ, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

9

0

0

NWSD, Federal Building Asheville, N. C.

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided. period. Every month of a year must have valid observations present before the ALL MONTHS value is selected When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. selected and printed. These values are then used to compute means and standard deviations for the entire for that year. Means and standard deviations are computed when four or more values are present for any

specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders. NOTE: According to

percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean Bivariate percentage frequency tabulations: Derived from 3-hourly observations, these tabulations are a wind speed for each direction. 5

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- Three tables are prepared for all surface winds included, and for all years combined as follows:
- (1) Annual all hours combined
- (2) By month all hours combined
- (3) By month by standard 3-hour groups
- A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet. è

•

1

0

SURFACE WINDS

(FROM DAILY OBSERVATIONS)

DAILY PEAK GUSTS IN KNOTS

ALAMEDA, CALIFORNIA STATION NAME

0

0

0

0

0

The state of the s

THIS PACE IS BEST QUALITY PRACTICABLE FROM COPY FURNISHED TO DUG

ALL	**			SSE 47				N		NS		35	SW			NE 45	141		3	SE	SE	SIL!	SE	Z				0 6	5 39		
*9	3			S		3	S	S	S	S	Z	S	S	S	3	Z	S	S	Z	S	S	S	S	S				1			
DEC.	40	27	31	35	28	99	40	39	37	90	28	**	56	36	42	37	30	25	62	84	42	51	43	34	38	33	36	30	36		
8	285 44KN1	SE	*	NE	80	3	SE	Z	SE	12SM	3	SSE	SE	*	NN	35	SSE	32	X	SSE	SSE	3NE	SSE	SE	SE	13	53	91(35		
NOV.	DOLLAR STATE		-	1900				1000		1.5						100		1				1				100			- 11		
	BULL	-		12.7		20.00	Library.	200	~	94.0	•	7	21N	Cont.			•		100		20.0	25.0		•	2.0	1000	all land	2186	20.0		
0CT.	THE SHAPE	100		307				18	300		*	100		13		13	19	1.00	13.34	93		010		(my	14.57	100	9	+2			
a.	255E	285	27	26	29	214	27	25	28	24	200	306	502	30	24	N N	285	23	300	124	33	25	295	23	300		-	252	-		
SEP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35MSH	Z	10 E	STESE ST	292	22W	20E	27¥	20M	27H	82W	BOZON	26SE	28×	282	28 E	252	BON	BONNE	31.5	SONE	321	24SE	S	100	N	5856	~		
AUG.	23K				-			-		-	*														-						
J.	NN	2	•	2	2	~	~	2	~	-	3	2	3	~	~		~	~	~	~	~	~	~	2		~					
Š.	200	20x	331	30M	43×	27×	316	371	351	29MS	3	30%	3245	300	318	321	W/E	301	331	382	308	BIE	351	312	4.1	2628		2926	3		
	N O O	SBNE	331	SSC++	INC	321	30 K	¥94	BOX	SOROE	345	BOMSM	321	314	38K	30H	30H	192	*ISK	342	272	MES	EMA	ESE.	312	3128	-	3225	20		
MAY	33		-			-				3				3		200			3		3	3					10° NO				
APR.	8 7	26	*	39	30	34	30	30	31	40	+ 3	**	404	25	42	**	36	33	0	43	31	38	38	33	30	30	50	32	30		
- 1-4-20	TO TO	305×	345SE	NEST T	¥14	SPENE	4 W.E	415	3386	335E	338	345	46SSE	318	41.4	375	スとませせ	408	4 SENE	BIENE	29H	SOMSH	388	358K	361	3531	2623	3203	3128		
MAR.	W X	2	2	ES	3			-		-		-			-	-	-		-		-	-									
=		36	36										-								-								1		
	300		¥	3465	53	508E	NOS	ZEE	318x	3388	NOT	45SE	3888	48SE	342	192	368E	104	48NE	Net Net	NOR	SZNA	388E	5285	THE P	1027	3020	3712	3716	-	
JAN.	3				ES		S	15	s		2000	MS		100		1000		2000			300	1740	10000	46151		3	159.0				
YEAR	45	44	48	64	20	3.5	25	53	1				28	96	9	10	29	63	**	63	•	10	89	69	10	11	72	73	75	MEAN	•

0

NAVWEASERVCOM

0

N

C

0

SURFACE WINDS

DAILY PEAK GUSTS IN KNUTS

18/161

- F	V 60	01010
MONTHS		
DEC.	S S S S S S S S S S S S S S S S S S S	1020
NOV.		149
		0 4 1
OCT.	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0
SEP.		27.5
AUG.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27.1
JU.		9.00
JCN.	2	1980
MAY		0.16
		200
*		0.10
MAR.		96.11
É		36.2
JAN.		100.3
		37
YEAR	222	MEAN S. D. TOTAL OBS.

0

0

NAVWEASERVCOM

6

1

0

-

10

0

SURFACE WINDS

/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/ ALAMEDA, CALIFORNIA STATION NAME

0

0

0

0

0

0

MAY JUN. JUI. AUG. SEP. OF 25 25 25 25 25 25 25 25 25 25 25 25 25	29 23 29 29 29 29 29 29 29 29 29 29 29 29 29
AUG. SEP. 0 22.25	AUG. SEP. OCT.
S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2229 31 20 20 20

0

NAVWEASERVCOM

0

ı

MEAN WIND SPEED 3.9

28

48 . 55

41 . 47

34 . 46

28 - 33

22 - 27

17 - 21

11 . 16

7 . 10

4.6

1:3

.

2,6

10.3

6.5 4.3 103 1

7.1

25.2

100.0

155

TOTAL NUMBER OF OBSERVATIONS

1.3

16.1

27.1

22.6

CALM

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73-77 ALL WEATHER

ALAMEDAS CALIFORNIA

23239

0

0

HOURS (L.S.T.)

JAN

0

0

0

1:00

2.6

3.2

3.2.2

X X X 2 2 3 3 3 5 5

00

.

000

SW WSW

20000

0000

WWW NWW VARBL

0

2

3.2

12.3

4.5 3.2

MEAN WIND SPEED

22 - 27

17 - 21

11 - 16

7 - 10

4.6

- 3

155

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALAMEDA, CALIFORNIA

0

0

0

0

YEARS

ALL WEATHER

NAP

04 HOURS (L.S.T.)

CONDITION

12 48 - 55 41 - 47 34 - 40 28 - 33

•

- 3 3 3 -

0

W2W ×

NA WAN

VARBL

3

1

4.0

5.6

5.9

4.5

10.3

•

14.2

29.0

6

0

20.0

100,0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

07 HOURS (L.S.T.)

NAL

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77 ALL WEATHER

ALAMEDAS CALIFORNIA

23239

0

0

0

0

0

COMBITION

MEAN WIND SPEED	4.5	4.3	3.5	6.8	2.5	4.7	1001	6.1	4.6	2.5	8.0	8.0	0.9	12.2	4.4	5.2			4.5
*	15.5	4.5	2.6	2.6	3.9	7.7	6.5	10.3	5.2	1.3	1.3	1.9	1.9	3.2	3.2	8.4		20.0	100.0
N 98																		\bigvee	
8 . 35																		X	
4.4																		X	
34 - 40																		\bigvee	
28 - 33																		X	
22 - 27																		X	
17 - 21							1.9	•										X	2.0
11 - 16		9.					1.3	•	9.		9.	9.	9.	2.6				X	7.7
7 . 10	2.6		•	•		1.9		1.9				9.			0.	2.6		X	11.6
:	8.4	1.3		1.9		3.2	1.9	3.9	1.3		9.	9.		9.	1.3	4.5		X	29.7
:	4.5	2.6	1.9		3.9	2.6	1.3	3.2	3.2	1.3			1.3		1.3	1.3		X	28.4
SEED PR. S	z	Z	Z	Z	•	ESE	*	388	s	SSW	*S	wsw	*	WWW	WW	NNN	VARBL	CALM	

DIRNAVOCEANMET

0

TOTAL NUMBER OF OBSERVATIONS

18

48 - 55

41 - 47

34 - 40

28 - 33

22 - 27

17 - 21

11 . 16

7 . 10

4.6

1.3

SEED (KNTS)

5702 SURFACE WINDS JAN 78

155

TOTAL NUMBER OF OBSERVATIONS

3.6 20.0 7.6 7.8 7.1 7.3 6.3 4.3 6.8 MEAN WIND SPEED 1.9 2.6 3.9 9.0 3.2 3.2 2.6 7.7 100.0 12,3

•

1.3

2.6

4.4.0

DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

COMDITION

0

0

Z Z Z Z - Z Z Z -

SSW

3.2

1.9

VARBL CALM

10.3

20.0

34.8

20.0

0

WSW WWW WWW WWW

SURFACE WINDS

Ê

13 HOURS (LS.T.)

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC 73-77

ALAMEDA, CALIFORNIA

ALL WEATHER CLASS CONDITION

MEAN WIND SPEED	9.2	10.7	0.9		6.5	4.0	11.4	3.9	7.8	3.7	3.5	5.6	5.7	1.0	8.8	7.9			6.9
×	9.4	1.9	9.2		2.6	9.	5.2	7.1	0.6	6.5	1.3	4.5	13.5	5.8	13.5	2.41		3.2	100.0
N 8																		X	
4 . 55																		X	
41.4																		\bigvee	
3 . 4																	Joe Te	\bigvee	
28 - 33																		\bigvee	
n · n							1.3		••									\bigvee	1.9
17 . 21												0.				9.		X	1.3
51 . 16	1.3	1.3			•				1.9				5.	9.	3.	1.3		X	11.6
7 - 10	5.8	•	9.		9.		2.6	••	1.9	0.			3.2	1.3	4.5	7.1		X	29.7
:	•		1.9			0.	1.3	2.6	2.6	1.9	9.	1.3	6.5	3.2	5.2	4.5		X	32.9
1:3	9.				1.3			3.9	1.9	3.9	9.	5.6	3.2	•		9.		X	19.4
SKATS)	z	N.	a n	ENE	•	55	35	SSE	•	SSW	NS.	WSW	*	WWW	¥	NNN	VARBL	CALM	

0

0

155

TOTAL NUMBER OF OBSERVATIONS

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

16 HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

COMBITION

SEED PIR.	•	:	7.10	1. I	17 - 21	n · n	28 - 33	34 . 46	41.47	48 - 55	% Al	×	MEAN WIND SPEED
z		3.2	2.6	0.	9.	9.						7.7	10.
N.			9.									1.3	13.
¥			9.					,				••	8
ENE	•			•								1.3	7.
•	1.9		9.	1.3								3.9	9
181	9.	1.3	9.									2.6	5.
*			1.3	0.	9.							2.6	13.
388		9.										9.	4.0
•	2.6	••	1.9	9.								5.8	•
ASS	3.2	2.6	0.									6.5	4.0
SW	2.6	1.3		1.9								5.8	6.7
WSW	9.	1.9	9.	1.3								4.5	6.1
*		3.9		1.9								0.6	80
WWW	9.	3.9	3.9	1.3	9.							10.3	7.8
WM	9.	8.4	0.6		0.							18.7	6.9
MMM	1.9	4.5	5.8	3.2								15.5	7.
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	\mathbb{X}	3.2	
	15.9	32.3	31.6	14.2	2.6	9.						100.0	7.2

0

0

0

5702 SURFACE WINDS JAN 78

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 40

(FROM HOURLY OBSERVATIONS)

ALL WEATHER

73-77

ALAMEDA, CALIFORNIA

19 HOURS (LS.T.)

NON

COMBITION

0

0

0

0

0

MEAN WIND SPEED	4.6	3.3	2.5	4.4	0.4	5.0	5.7	0.6	8.6	8.0	4.5	4.3	8.2	4.6	5.7	4.0			4.9	
*	15.5	1.9	1.3	3.2	3.9	1.3	4.5	3.2	4.5	1.3	1.3	1.9	5.3	5.2	13.5	12.9		18.7	100.0	
%																		X		
48 - 55																		X		
41.47																		X		
34 - 40																		X		
28 - 33																		X		
n. n														9.				X	• 6	
17 . 21								9.										X	9.	
1 . 16								9.	1.3	•			1:3	1.3	•			X	5.8	
7.10	2.6			9.		9.	1,3	•	1.9				5.6		2.5	6.5		X	19.4	
:	7.1	1.3		1.3	1.9		1.9		•	9.	•	1.9	7.0	2.0	7.5	4:3		X	33.5	
:	5,8	5	1.3	1.3	1.9	9.	1.3	1.3	•		•			9	3.2	1.9		X	21.3	
KNTS)	z	Z	ž	2		ESE	*	SSE	0	SSW	NS.	WSW	*	WWW	N N	NN.	VARBL	CALM		

0

0

0

0

0

-

===

155

TOTAL NUMBER OF OBSERVATIONS

0

3.9

4.5

21,3

MEAN WIND SPEED

6.5

000

900

3.2

- 2 2 2 -

5.0 4.9 8.6 5.7

3.9

155

4:1

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

23239

ALL WEATHER

YEARS

22 HOURS (L.S.T.)

LAN

28 - 33

22 - 27

17 - 21

1 . 16

7 . 10

...

1.3

10.00 1 19.4 100.0

7.1

TOTAL NUMBER OF OBSERVATIONS

1.9

14.8

34.8

40.0

WNW NWW VARBL

CALM

SW WSW

DIRNAVOCEANMET SMOS

0

0

0 0 0 0 0 0 0 0

MEAN WIND SPEED

*

12

48 . 55

2.8

-

- 2 2 2 -

SSW WSW WSW

2.9

9.4

2.

1:1

NW NW

VARBL CALM

*

. 1

-.

44.00

1.5

2.

1:0

1.8

0.6

19.7

31.8

11.7

15.2

100.0

5702 SURFACE WINDS JAN 78

3.0

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

ALAMEDA, CALIFORNIA

23239

0

0

0

0

0

73-77

YEARS

ALL HOURS (L.S.T.)

LAN

Ë

SURFACE WINDS

ALL WEATHER

١				
I				
۱				
1	3	5		
Į		i		
I		Š		
١				

7 . 10	3.1	.3		*.	۳.	1.4	1.2
2 2 3	1.0	.3	.1	.2	.2	. 3	0.1
17 . 21	.2						ex.
22 - 27	.1						6.
28 - 33							
34 . 46							
41 - 47							

4.6

1.3

SPEED (KNTS) DIR.

ZZZZ

0

0

0

TOTAL NUMBER OF OBSERVATIONS

1240

0

0

DIRNAVOCEANMET SMOS

00

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

6.9

MEAN WIND SPEED

9.4

909

FEB

=

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

WEATHER CLASS

73-77

ALAMEDA, CALIFORNIA

23239

YEARS

NOURS (L.S.T.)

11 . 16

7 . 10

-3

31.44.1 2.1 22.0 10000 12 . 55 4 41 - 47 34 - 40

2.8

2.1

2.1

1.4

2.1

1.4

4.3

TOTAL NUMBER OF OBSERVATIONS

141

4.6

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

0

0

0

3.5

- 2 2 2 -

SSW WSW WSW





WNW NW NW NWW



CALM

10.6

16.3

21.3

28.4







3.5

6.6

•

1.4

N N N

0

0

1:4

1.4.4

1.4

SSW WSW WSW

•

4.3

2 2 2

2.1

MEAN WIND SPEED

128

HHH

3

SURFACE WINDS

E

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 40

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

ALAMEDA, CALIFORNIA

23239

0

0

0

73-77

YEARS

HOURS (L.S.T.)

FEB

ALL WEATHER

CONDITION

22 . 27

17 - 21

11 . 16

7 - 10

4.6

1.3

SPEED ENTS)

0

0

10.00 7.1 3.5 16.3

•

NW NW NWW

*

CALM

TOTAL NUMBER OF OBSERVATIONS

141

5.0

100.0

8.5

31.2

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

200

SURFACE WINDS

FEB	MONTH	07	HOURS (L.S.T.)	
73-77	YEARS	ALL WEATHER	CLASS	COMBITION
ALAMEDA, CALIFORNIA	STATION NAME			

0

MEAN WIND SPEED	4.9	4.7	12.0	4.3	4.6	0.0	0.6	6.7	6.3	7.0	4.5	3.0	6.1	11.9	9.5	7.7			4.9
*	13.5	2.0	4.	2.1	0.6	14.2	4.3	4.9	5.7	2.8	1.4	1.4	2.0	5.0	2.8	2.1		22.7	100.0
8																		\bigvee	
8 . 55																		X	
41.4																		\bigvee	
34 - 40																		\bigvee	
28 - 33																		\bigvee	
n · n																		\bigvee	
17 - 21														1.4				\bigvee	1.4
11 - 16	1.4		۲.				2.1	1.4	.,	.7				1.4	1.4			X	11.3
7 - 10	2.1	1.4				5.7		1.4	1.4	.7				•		2.1		X	16.3
:	4.3	1.4		1.4	2.8	£.4	1.4	4.	2.1		.1		3.5	**1	1.4			X	27.0
1.3	5.7	2.1		1.	1.4	3.5		2.8	1.4			۲.						X	21.3
SPEED (KNTS) DIE.	z	Z.	N.	Z	3	253	*	388	8	SSW	SW	MSM	*	WWW	¥	NNN	VARBL	CALM	

200

141

4.0

100.0

2.1

12.8

24.1

34.8

CALM

SK

.

8.5

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

SPEED (KNTS)

0

0

0

0

¥ = 3

0

0

WEATHER

DIRECTION AND SPEED

MEAN WIND SPEED 10 HOURS (L.S.T.) FEB

12:17:4 2.1 * 8 48 - 55 41 - 47 34 - 40 28 - 33 22 - 27 17 - 21 2.8 2:1 11 . 16 31.4 212216 7.10 3.78 2.8 2.8 4.6 4.0 1.3 WNW NW NW NW NAW SSW - 2 2 2 2 WSW

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

9090

SURFACE WINDS JAN 78

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALAMEDA, CALIFORNIA

0

0

0

0

YEARS

ALL WEATHER

13 HOURS (L.S.T.)

FEB

CONDITION

17 - 21

11 - 16

7.10

4.6

--

SPEED (KNTS) DIR.

0

0

12.8 7.3 5.4 7.0 6.2 8.0 MEAN WIND SPEED 9.2 100.0 * 128 48 - 55 41 . 47 34 . 40 28 - 33 22 - 27

3.5

2.0

¥8 ×8 MSM

1.2 2.1

2 2 2 2

1

141

TOTAL NUMBER OF OBSERVATIONS

3.5

12.1

30.5

30.5

3 3

2.4 5.2

WNW NW NW NW NW NW

CALM

8

0

0

0

2.8

5702 SURFACE WINDS JAN 78

SURFACE WINDS

010

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

00

0

0

0

0

0

0

0

THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.

(FROM HOURLY OBSERVATIONS)

NOURS (L.S.T.) FEB 73-77 ALL WEATHER CONDITION ALAMEDA, CALIFORNIA

MEAN WIND SPEED	8.0	2.0	8.0		0.0	16.0	12.0	9.6	7.1	6.3	4.7	8.0	8.6	9.1	9.1	8.4			8.2
*	4.3	1.4			••		2.1	5.0	6.6	2.1	2.1	4.0	27.0	12.1	14.2	9.5		2.1	100.0
%																		X	
8 . 55																		X	
41.4																		X	
34 - 40																		\bigvee	
28 - 33																		\bigvee	
n · n																		\bigvee	
17 - 21													2.1		4.			X	5.7
11 . 16	1.							1.4	4:1			1.4	4.0	2.8	2.8	**1		X	19.1
7 . 10	1.4		•				7.4	1.4	1.4	۲.	۲.	6.4	8.5	4.9	8.5	3.5		X	39.0
:	2.1				۲.				3.5	1:4			7.8	2.8	2.1	2.1		X	22.7
:		1.4						1.4	2.8		1.4	۲.	2.1			1.4		X	11,3
(KNTS) DE.	z	Z	¥	Z.		ESE	35	388	•	SSW	SW	WSW	*	WWW	N.	MNN	VARBL	CALM	

0

TOTAL NUMBER OF OBSERVATIONS

19 HOURS (L.S.T.)

FEB

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

0

0

0

ALL WEATHER

MEAN WIND SPEED	4.7	6.3	5.3	8.0	5.8	8.0	12.7	12.8	8.4	7.5	1.5	4.4	6.1	9.9	7.0	5.9			4.4
×	7.8	2.1	2.1	۲.	2.8	2.8	2.1	4.3	7.8	1.4	1.4	3.5	25.5	2.6	6.6	15.1		6.4	0.001
% Al																		X	
4 . 55 .																		X	
41.47																		X	
34 - 46																		X	
28 - 33																		X	
n - n								.7										X	4.
17 . 21						1.												X	1.4
5							1.4	1.4	2.8	.7			1.4	1.4	1.4	2.1		X	12.5
7.10	1.4	۲.		۲.	1.4	۲.	r.		1.4				7.8	2.1	2.8	2.1		X	22.7
;	2.1	1.4	•						2.1			2.8	6.6	2.8	6.4	6.4		X	21.0
:	3.5				1.	1.4		4.	1.4		1.4	r.	4.0	2.8	1.4	3.5		X	25.5
SEED (RWTS) PR.	z	Z	¥	Z	-	25	*	28	•	SSW	NS.	MSM	>	WWW	×	NNW	VARBL	CALM	

of o

0

22 HOURS (L.S.T.)

FEB

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 40

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

CONDITION

0

0

0

0

0

E

141

TOTAL NUMBER OF OBSERVATIONS

100.0

MEAN WIND SPEED	6.4	2,8	3.0	4.3	1.8	6.7	4.0	7.0	9.6	7.4	7.0	5.5	5.4	8.2	5.3	9.9		
*	11.3	3.5		2.1	2.8	5.0	3.5	3.5	7.8	3.5	2.1	5.7	8.5	4.9	7.8	8.5		17.0
% AI																		X
8 . 35																		X
41 - 47																		\bigvee
34 . 46																		\bigvee
28 - 33																		X
2.2																		X
7 - 21									• 7									X
11 . 16									2.8	۲.	r.	•		2.8	••	1.4		X
7.10	2.1					2.8		۲.	1.4	۲.			۲.		1.4	2.1		X
:	4.3	1.4		1.4		1.4	•	1.4	2.1	1.4		4.3	5.0	1.4	2.1	2.1		X
:	4.3	2.1			2.8		2.1			. 7	. 7		2.1	1.4	3.5	2.8		X
SAS A	z	MA	Z	Z		253	*	3	s	ASS	*S	WSW	*	WW	ž	NNW	VARBL	CALM

SURFACE WINDS JAN 78

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

YEARS

FEB

HOURS (LS.T.)

0

0

0

0

0

SPEED 1.	;	7 - 10	9 · H	17 . 21	2.2	28 - 33	¥ . 4	41.0	48 - 55	8	×	WEAN WIND SPEED
	2.9 3.3	3 2.0	1.2								9.3	3.
	1.3 .8	8 .5									2.7	*
	· L.	4. 5	€'								1.6	3.
	.3	4.									1.1	•
	1.2	9.									2.7	*
	1.6 1.	7 2.2	\$.	2.							6.2	•
	1,2 1.		1.1	*.							5.4	
	1.3 1.	2 1.0	1.0	.2							5.0	8
	2.3 3.		2	4.							9.8	7.
	1.1 1.5			.1							3.5	5.
	1.2	* • •	£ .								2.5	5.
	.7 L.	4.1 0.	4.								4.1	•
	2.0 5.		1.7	4.							12.4	7.
	1.1 2.		+*1	4.							6.9	8
	1.5 2.0		1.0	.1							6.9	6.
	1.7 2.5		1.5	.3							8.2	7.
Δ	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	X	\bigvee	11.8	
2.	22.0 28.	5 22.5	12.7	2.2	.3						100.0	5.

8-004840N9M-0N8M

0

1128

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

0

0

0

0

0

0

0

OL HOURS (L.S.T.)

MAR

4
41 - 47
34 - 40
28 - 33
22

-													WEAR.
(KNTS)	::	;/	7 - 10	1 · 16	17 - 21	22.22	28 - 33	34 - 40	41.42	48 - 55	% Al	*	WIND
z	1.3	1.3	2.6	1.3								6.9	7.7
Z	1.3	•	1.9		9.							4.5	7.1
¥		1.3										1.3	5.5
Z	1.9	•										2.6	2.8
•	3.2	2.	9.									6.9	3.6
23		3.2	0.	0.								4.5	9.9
*		9.	•	1.3								2.6	9.8
32	9.	•	-									2.6	5.3
•	2.6	1.		1.9		9.						6.4	7.9
SSW	1.9	3.2	••									5.8	4.7
AS.	9.	2.										3.2	4.6
MSM	9.	2.	1.3	9.								2.2	6.3
*	1.9	*		2.6	•							17.4	7.9
WWW	1.3	3.2	3.9	1.3								6.4	7.3
¥		2.6	1.3	6:7								5.8	8.4
NNN	9.		9.		9.							5.4	13.0
VARBL													
CALM	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	4.4	
	18.1	31.	26.5	14.2	1.9	9.						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

MEAN WIND SPEED

155

TOTAL NUMBER OF OBSERVATIONS

14.8

CALM

SW WSW

- 2 2 2 -

9

6.2

10.1

0

SURFACE WINDS

= 0

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

04 NOURS (L.S.T.)

MAR

0

0

0

- 3

z 2 2 2

(

*	7.1	3.9	1,3	1.3	8.4	6.9	1.7	6.5	3.9	2.6	1.1	8.8	6.9	4.4	5.2	8.8	15.9	100.0
8																	\bigvee	
48 - 55																	X	
41.4																	\bigvee	
34 . 46																	X	
28 - 33																	X	
2.2														9.			X	9.
17.21							9.	9.									X	1.3
91 . 11	2.6	1.3					1.3		1.9		9.		1.3	•	1.9	3.2	X	14.8
7 - 10	2.6	1.9			•	1.9	1.3	1.9	•	1.3	1.3	9.	4.5	3.2		1.3	X	23.2
	0.	0.	0		~	0	6.	m		9.	0.	6.	9	~	0	.3		m

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

MEAN WIND SPEED

0

155

6.1

SURFACE WINDS JAN 78

73-77 ALL WEATHER ALAMEDA, CALIFORNIA

HOURS (L.S.T.)

MAR

COMBITION

0

0

0

*	4.6	3.9	1.9	1.9	5.2	7.1	7.7	7.1	6.9	3.2	3.9	3.9	3.9	5.8	4.5	4.6	14.2	100.0
%																	X	
48 - 55																	X	
41.47																	\bigvee	
34 - 46																	\bigvee	
28 - 33																	\bigvee	
2.2																	\bigvee	
17 . 21						0.			9.					9.		9.	X	2.6
91 . 11	1.3	9.				1.3	1.3	1.3	2.6			•		2.6	2,6	1.9	X	16.1
7 . 10	1.9	1.3	9.			9.	2.6	3.9	9.	1.3	1.3	9.	1.3		9.	4.5	X	51.9
•	3.2	1.3		9.	3.2	3.2	5.6	1.9	1.3	1.3	1.3	1.3	5.6	1.3	9.	1.9	X	27.7
:	3.2	٥.	1.3	9.	1.9	1.3	1.3		1.3	3.	1.3	1.3		1.3	9.	9.	X	17.4
	-						-								-			

WSW WSW

Z Z

0

0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

3.2

MEAN WIND SPEED

12

22 . 27

17 - 21

11 . 16

7 - 10

4.0

1.3

SENS SE

0

0

2.6

ZZZZ

0

E

13.00

8.1

11.6

6.1 1.9

15.5

26.5

34.2

•

3.5

WWW NWW

VARBL CALM

200000 EL 20000 4 EL

1.9

9.6

- 2 2 2 ~

0

SSW

WSW W

3.2

1.96

SURFACE WINDS

050

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

NOURS (L.S.T.) MAR

155

1

0

0

100.0

TOTAL NUMBER OF OBSERVATIONS

12.8

MEAN WIND SPEED

10.0

7.9 9.6

10.5

NAW NAW

CALM

SSW

s

WSW W

1

2

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

23239

0

0

0

WEATHER

ALL

13 HOURS (L.S.T.)

MAR

CHDITION	

	L		 -				_	_	_	_		_	_			
*	1.3	2.6	9.	1.9	1.9	5.8	0.6	2.6	4.5	11.0	29.0	12.9	0.6	4.4	0.	100.0
8															\bigvee	
48 - 55															\bigvee	
41.47															\bigvee	
34 - 46															\bigvee	
28 - 33															\bigvee	
22 - 27							1.3								X	1.3
17 - 21		9.						9.	9.		1.9	1.3	9.	1.3	X	7.1
91 - 11	9.	0.		1.3	9.	1.9	1.9		1.3	1.9	11.0	1.9	1.3	1.9	X	26.5
7 . 10		1.3	0.			9.	1.3	9.	•	4.5	8.4	5.8	1.9	2.6	X	28.4
;				9.	1.3	1.9		9.	9.	3.9	6.5	2.6	4.5	1.9	X	27.1
:	9.					1.3	1.9	9.	1.3	9.	1.3	1.3	0.		X	9.7

0

0

TOTAL NUMBER OF OBSERVATIONS

155

9,2

5702: SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

A THE WASHINGTON AND PERSONS ASSESSMENT OF THE PERSON OF T

PERCENTAGE FREQUENCY OF WIND FROM HOURLY OBSERVATIONS)

3000

SURFACE WINDS

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

0

0

0

0

0

16 HOURS (L.S.T.)

MAR

COMBITION

(KNTS) DIR.	1.3	• • •	7 . 10	5	17 - 21	n · n	28 - 33	34 - 40	41 . 47	48 . 55	95 Al		*
z			9.	9.									3
ZZ			9.										9.
¥			9.										9.
ENE	9.												.6
3	9.												9
ESE			9.	9.								1	. 3
*													
388		1.3			9.							7	6.
8		9.	2.6	1.9	1.3	9.							. 1
SSW		9.	7	9.								3.	2.
SW	9.		1.3									1.	6
MSM		9.	7	1.3								9	3
*	1.3	5.6	11.6	25.8	1.9	9.						43.5	6
WWW		1.3	3.2	10.3	1.9							16.	1
K		1.3	4.5	2.6	9.							•6	C
NNN			9.	3.2	9.							4.	2
VARBL													
CALM	\bigvee	\bigvee	X	\bigvee		0							
	3.2	8.4	32.9	47.1	7.1	1.3						100.0	0

5702 SURFACE WINDS JAN 78

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

HAR	HONTH	19	NOURS (L.S.T.)	
73-77	YEARS	ALL WEATHER	CLASS	COMBITION
CALIFORNIA	STATION MAME			

MEAN WIND SPEED	8.0	0.6		0.4	4.0		16.7	11.3	8.3	9.6	8.2	10.0	8.9	8.2	8.8			9.1
×	5.8	9.		1.3	1.3		1.9	6.9	1.9	3.9	0.6	30.3	16.8	12,3	7.1		1.3	100.0
%																	X	
48 - 55																	\bigvee	
41.4																	\bigvee	
34 - 40																	\bigvee	
28 - 33																	\bigvee	
22.22												9.					X	9.
17 - 21							1.3	9.					1.3	9.	9.		X	4.5
 8	2.6						9.	2.6		1.9	9.	13.	4.5	1.9	2.6		X	31.0
7 - 10		9.						3.2	1.9	1.3	5.8	10.3	5.2	4.5	1.3	7	X	34.2
:	2.6			4.	•					•	1.9	5.2	4.5	3.9	1.3		X	21.3
:	0.			9.	9.						•	•	1.3	1.3	1.3		X	7.1
5 E E	z	-	¥	Z.	ESE	*	325	•	SSW	*S	WSW	*	WWW	¥	NNN	VARBL	CALM	

1111

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

ALL MEATHER

73-77

YEARS

ALAMEDA, CALIFORNIA

23239

0

22 HOURS (L.S.T.)

MAR

CONDITION

4.9 4.0 MEAN WIND SPEED 3.2 * 128 48 - 55 41 - 47 34 - 40 28 - 33 22 - 27

• 6

2.0

2.6

17 . 21

11 . 16

7.10

4.0

-:3

SPEED (KNTS) DIR.

0

0

0

ZZZZZ

0

5702 SURFACE WINDS JAN 78

8.3

8 8 8

• •

9.

.

.6

1.9

SSW

- 32 22 2

WSW

NS.

WNW W

•

3.00

7.6

9.9

9.

3.2.2

9.

NW NAW

CALM

1.3

4.5

16.1

34.2

24.5

12.9

TOTAL NUMBER OF OBSERVATIONS

153

100.0

7.7

0

1

0

SOMS DIRNAVOCEANMET

TOTAL NUMBER OF OBSERVATIONS

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

0

0

0

0

0

ALL HOURS (L.S.T.)

MAR

MEAN WIND SPEED	8.1	8.5	4.6	3.6	3.9	6.7	8.3	8.2	9.1	9.9	6.5	6.7	9.6	9.1	8.6	10.1			7,9
×	6.9	2.8	8.	1.1	3.0	3.2	3.7	4.7	7.5	4.1	3.9	4.9	50.02	10.9	8.0	7.3		5.6	100.0
% Al																		X	
48 - 55																		X	
41.4																		\bigvee	
3 8																		\bigvee	
28 - 33																		X	
22 - 22									.3				.2	7.				X	9.
17 - 21	•2	2.				-		*	4.	7.	7.		•	••	9.	8.		X	4.3
11 - 16	1.7	•				•	1.2	9.	2.0	.2	2	۲.	7.2	3.1	7.0	2.7		$\langle \rangle$	22.7
7 . 10	1.6	1:1	.2	.2	e.	•		1.8	1.9	1.5	6.	2.3	7.3	3.5	2.6	1.9		\bigvee	28.5
• :	1.8	9.	~	~	1.4	1.5	1.2	1.5	1.5	1.5	1.6	2.2	3.6	5.6	2.7	1.5		X	25.8
÷.	1.0	m.	m	•	1.3	0.	3.	3.	1.3	33		1.1	1.5	1.0	9.	••		$\langle \rangle$	12.6
SPEED (KNTS) DIR.	z	W X	¥	ENE	**	ESE	**	SSE	•	SSW	NS.	WSW	*	WWW	¥	NNW	VARBL	CALM	

2,5

1.3

MEAN WIND SPEED

*

128

48 - 55

1110

3.3

5.5

9.9

2.0

NWW NWW VARBL

0

*

CALM

. .

3.37

2 5 4 3 5

SSW NSW WSW

2 2 2

15.3

25.3

26.0

18.7

0

5.8

7.3

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALAMEDA, CALIFORNIA STATION NAME

0

0

HOURS (L.S.T.) APR

ALL WEATHER

7 - 10

4.6

-

0

0

0

TOTAL NUMBER OF OBSERVATIONS

150

5.8

10000

14.0

1.9

0

04 NOURS (L.S.T.)

APR

2

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDAS CALIFORNIA

23239

0

0

0

YEARS

CONDITION

2.0 4.0 7.3 8.4 MEAN WIND SPEED 8.7 * 128 48 - 55

41 - 47

34 - 40

28 - 33

22 - 27

17 - 21

11 - 16

7 - 10

4.6

1.3

SPEED (KNTS)

2.0

TOTAL NUMBER OF OBSERVATIONS

150

100.0

12.0

26.7

28.0

16.7

1.3

NW NNW VARBL

3

WW

2.7

2 2 4 4 W W

NS. SSW

WSW

- 2 2 2 2

(

15.3

YEARS

73-77

ALAMEDA, CALIFORNIA

0

0

0

0

ALL WEATHER

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

A LEAD WOOD AND AND ADDRESS OF TAXABLE AND AD

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

SURFACE WINDS JAN 78

TOTAL NUMBER OF OBSERVATIONS

NKE 1.3 NKE 1	SPEED (KNTS) DIR.	1.3	*:	7.10	1.16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	*	*	MEAN WIND SPEED
1.3	z	2.0	-			•							10.7	8.5
4,0 1,3 .7 1,3 2,7 2,1 1,3 .7 6,0 1,3 2,0 2,0 4,7 2,0 2,0 2,0 2,0 4,0 2,0 2,0 2,0 3,3 .7 10,7 1,3 2,0 2,0 3,3 .7 15,3 1,6,0 26,0 26,7 26,7 10,7 2,0 .7	Z		1.3										1,3	
4,0 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 0.7 0.0 0.7 0.0 0	¥													
2,7 2,1 1,3 .7 .7 .9 .7 .9 .7 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9	2			۲.									1.3	5.0
2.7 2.7 2.7 1.3 1.3 .7 .7 .7 .7 .7 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	3	4.0	-										0.9	2.9
1.3 2.0 2.7 4.7 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	ESE	2.7	2.	1.3									6.7	4.1
1.3 2.0 .7 .7 .7 4.7 .7 2.7 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	*		2.7	-	1.3								0.9	6.7
2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3	SSE	1.3		.,									4.7	9.9
2.0 2.0 2.0 2.0 3.3 .7 .7 .7 .7	•												4.0	7.8
2.0 2.0 2.0 2.0 .7 .7 .7 .777	SSW	۲.											0.9	0.0
2.0 2.0 2.0 .7 .7 .7 .7 .0.7 .7 .10.7 .7 .7	SK		1.3		.,								3.3	7.8
1.3 2.0 1.3 .7 .7 5.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	WSW	2.0	2										0.9	5.2
1.3 2.0 1.3 .7 .7 .7 1.3 5.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	>	4.	100.00		1.3								10.7	7.8
1.3 2.0 .7 1.3 .7 7.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	WWW				.,		.7						5,3	8.6
16.0 26.7 26.7 10.7 2.0 .7 15.3	¥	1.3			1.3								5.3	7.0
18.0 26.7 26.7 10.7 2.0 .7	NNN	1,3				.7							7.3	10.5
18.0 26.7 26.7 10.7 2.0 .7	VARBL													
26.7 26.7 10.7 2.0 .7	CALM	\bigvee	15,3	0										
		18.0		26.7		2.0	.,						100.0	5.9

0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

0

SURFACE WINDS

SURFACE WINDS	APR	RONTH	10	MOURS (L.S.T.)
PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)	73-77	YEARS	ALL WEATHER	CLASS
NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC	ALAMEDA, CALIFORNIA	STATION NAME		

MEAN WIND SPEED	11.4	10.0					7.0	6.1	4.8	6.4	5.4	5.7	7,1	7.5	8.6	9.5			4.9
×	4.7	1.3					1.3	8.0	16.7	6.7	6.9	15.3	13,3	0.4	6.7	6.9		3.3	100.0
8 Al																		X	
8 . 55																		X	
41.47																		X	
3 6																		X	_
28 - 33																		X	
22 - 27																		X	۲.
17 - 21	1.3														.7			X	3.3
1. 16		.,									۲.	1.3	1.3		2.0	2.7		X	9.3
7 . 10							۲.	1.3	4.0	2.0	1.3	4.0	4.7	1.3		4.0		X	24.7
• •	۲.	. 7						4.0	6.1	2.0	4.1	7.3	6.7	2.0	2.0	۲.		X	38.0
:	1.3							2.0	0.9	2.7	2.7	2.7	۲.		1.3	1.3		X	20.7
SPEED (KNTS) DIR.	z	NN	2	E E	4	ESE	*	SSE	•	SSW	AS.	WSW	*	WWW	¥	NN.	VARBL	CALM	

16.0

6.7

1.3

MEAN WIND SPEED

*

28 - 33

22 - 27

17 - 21

11 . 16

7.10

4.6

1.3

SPEED (KNTS) DIR.

z z z z

0

150

9.6

100.0

0

0

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA STATION MANE

23239

0

0

0

0

YEARS

13 HOURS (L.S.T.)

APR

128 48 - 55 41 . 47 34 - 40

16.0

5.3

10.00

9.9

6.0 115.3 31.3 8.0 2.0

2.0

20.7

*

NW NW VARBL

CALA

3.33.9

SSW SW

2.7

- 3 2 2 2

0

1.3

28.0

46.7

16.0

0

(3)

TOTAL NUMBER OF OBSERVATIONS

MEAN WIND SPEED

*

12

48 - 55

41 - 47

34 - 40

28 - 33

22 - 27

17 - 21

11 - 16

7 . 10

4.6

- 3

SPEED (KNTS)

Z Z Z

SURFACE WINDS JAN 78

12.5 12.0 11.8 11,6 1.3 28.0 100.0

.

.7 1.3

25.3

5.3

4.0

SW WSW

WWW NIWW NAWW

CALM

150

TOTAL NUMBER OF OBSERVATIONS

6.3

46.0

33.3

10.7

DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

16 HOURS (L.S.T.)

APR

YEARS

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

CONDITION

WINDS

SURFACE

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

23239

0 0 0 0 0 0 0 0

2 2 2 2 S

6.0

2.0

SSW

WSW X

(3)

- 2 - 3 -

W + W V +

NW NNW VARBL

CALM

.

APR

050

SURFACE WINDS

6.3

MEAN WIND SPEED

(FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALAMEDA, CALIFORNIA

0

0

0

0

0

YEARS

19 HOURS (L.S.T.)

ALL MEATHER

17 - 21

11 - 16

7 - 10

4.0

1.3

SPEED (KNTS) DIR.

z z z z

0

0

5.3 2.0 100.0 . * 128 48 - 55 41 - 47 34 - 40 28 - 33 1.3 22 - 27

TOTAL NUMBER OF OBSERVATIONS

2.7

32.0

38.7

22.7

150

DIRNAVOCEANMET SMOS

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALAMEDA, CALIFORNIA

0

0

0

0

0

0

ALL WEATHER

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

MEAN WIND SPEED	4.8				7.0	11.0		7.9	9.9	5,8	6.7	7.6	8.4	8.2	7.6			6.8
*	7.3					4.		4.7	6.3	0.4	15.3	28.0	11.3	6.8	0.9		7.3	100.0
8																	\bigvee	
48 - 55																	\bigvee	
4.14																	\bigvee	
34 - 40																	\bigvee	
28 - 33																	\bigvee	
22 - 22																	\bigvee	
17 - 21																	\bigvee	
11 - 16						•		1.3			2.0	5.3	0.4	2.7			X	16.7
7 . 10	2.0							1.3	3.3	2.7	5.3	11.3	2.7	2.0	0.4		\bigvee	35.3
•	2.7							1.3			5.3		3.3	2.0	1.3		X	24.0
:	2.7								1.3	1.3	2.7	0.4	1.3	2.7			X	16.7
SPEED (KNTS) DIR.	z	NN	¥	Z.	ESE	25	386	•	SSW	SW	WSW	*	WWW	¥	NNW	VARBL	CALM	

SURFACE WINDS

050

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

ALL WEATHER CONDITION ALAMEDA, CALIFORNIA

0

0

0

0

0

73-77

ALL HOURS (L.S.T.)

APR

MEAN WIND SPEED	7.6	9.4	3.5	3.0	3.1	4.2	1	4.4	6.5	9.9	7.0	7.6	9.6	4.6	8.5	8.6			7.7
×	5.2	4.	2.	s.	1.2	1.9	1.7	2.7	0.9	4.7	5.5	11.2	26.7	11.7	7.2	8.8		7.1	100.0
8																		\bigvee	
48 - 55																		X	
41.4																		X	
34 - 46																		X	
28 · 33																		X	
22 - 27	1.												1.	.3				\bigvee	3.
17 . 21	.2	• 1						.2	• 1	1.		.2	1.2	.2	• 2	• 5		X	3.0
11 - 16	.7	.2					*.	4.	••	7'		1.9	6.9	3.5	2.1	1.3		X	21.2
7.10	1.7			1.	1.	4.	*•	e.	2.2	2.2	2.0	3.8	10.3	4.5	2.1	2.0		X	32.2
:	1.5	.2	1.		6.	9.	Lo	1.1	2.1	1.4	2.0	4.0	**	2.6	1.7	1.2		X	24.0
:	6.	.2	7.	*.	8.	6.	. s	9.	1.2	8.		1.2	1.3	. 7	1.1			X	12.0
SPEED (KNTS) DIR.	z	NNE	¥	ENE	3	ESE	38	SSE	s	SSW	SW	WSW	*	WWW	NW	NNN	VARBL	CALM	

OF O

0

0

1

1200

TOTAL NUMBER OF OBSERVATIONS

1

0 . 0 . .

8.0

MEAN WIND SPEED

8

128

48 - 55

1 - 47

7 . 10

4.6

1.3

KNTS) DIR.

N N N

0

0

0

5.8

13.6

000

....

- 24 20

SSW

8

25 SE SE

WSW

*

SW

WNW

NW NWW

CALM

154

6.7

100.0

6.1

14.9

33.1

20.8

20.8

8.4

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

ALAMEDA, CALIFORNIA

23239

0

0

0

73-77

WEATHER

ALL

YEARS

CONDITION

O1 HOURS (L.S.T.) MAM

34 - 40			
28 - 33			
22 - 27			
17 - 21			
2	•		

		COST	
	r	ī	ĸ.
	7	٦	١
	(j	١
	(9)
	(9)
	())
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
		Į	
	-		
	-		
	-		
	-		
	-		
	-		
	-		
	-		
	-		
	-		
	-		
	-		
	-		
	-	Į	
	-		
	-		

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

5875

ALL WEATHER

CONDITION

0

0

0

73-77

ALAMEDA, CALIFORNIA

YEARS

NOURE (L.S.T.)

MAY

WIND SPEED	7.0	2.0	5.0	1.0	4.2	4.6	4.7	6.3	4.8	6.9	7.8	6.9	8,3	0.6	7.9	5.3			6.0
×	1.9	9.	0.	9.	3.9	3.2	1.9	7.0	3.2	7.1	7.7	16.1	20.6	7.1	5.2	3.9		14.2	100.0
8 Al																		X	
48 - 55																		X	
41.4																		X	
34 - 40																		X	
28 - 33																		X	
22 - 27																		X	
17.21													1.3	9.	9.			X	2.6
91 - 16	9.									1.3	1.9	1.9	4.5	1.3	9.	9.		X	12.9
7.10					9.			1.3	9.	1.3	2.6	5.8	7.7	2.6	9.			X	23.2
:	9.		9.		1.3	2.6	1.9		1.3	3.2	2.6	7.1	5.6	1.9	5.6	2.6		X	31.0
::	9.	9.		9.	1.9	9.		9.	1.3	1.3	9.	1,3	4.5	9.	9.	9.		X	1001
SPEED (KNTS) DIR.	z	NNE	NE NE	ENE		ESE	35	358	•	SSW	SW	WSW	*	WWW	¥	NNN	VARBL	CALM	

NAVAL WEATHER SERVICE DETACHMENT SHEVILLE N C F/6 4/2 SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS), ALAMEDA--ETC(U) AD-A060 998 JUN 78 UNCLASSIFIED NL 2 OF 4 A060998

5.8

5.6

WIND SPEED

*

34 - 40

28 - 33

22 - 27

17 - 21

11 - 16

7 - 10

4.6

1.3

SPEED (KNTS) DIR.

0

1

SURFACE WINDS

OF

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

23239

YEARS

ALL WEATHER

NOURS (L.S.T.)

MAY

CONDITION

5.2 9.0 9.0 7.1 12 . 55 4 . 47 7

5.0

3.9

7.0

155

5.4

100.0

16.8

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

000

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 0

0

0

0

Z Z Z Z Z Z Z Z Z

SSW NSW WSW

WWW NWW NAME

000

12.3

21.9

31.6

.....

6.1.0

3.2

1.30

CALM

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

The same and all the same and t

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

0

0

YEARS

NOURS (L.S.T.)

MA M

CONDITION

4.6

- 3

SPEED RNTS)

0

0

工艺艺艺

0

2 2 3

SSW 3K WSW

0

WEAN WIND SPEED	9.4		3.0	4.5	4.7	4.5	4.6	7.4	6.5	9.4	7.9	10.4	5,3		6.7
×	3.2		9.	2.6	5.8	16.1	10.3	12.9	14.2	18.7	6.5	5.2	1.9	1.9	100.0
98 41														X	
48 - 55														X	
41.47														X	
34 . 40														X	
28 - 33														X	
22.27														X	
17 - 21												9.		X	9.
9	1.3							3.9	1.3	0.6	1.9	1.9		X	19.4
2.	9.			9.	1.3	5.6	1.3	3.2	8.8	3.2	6.1	1.3	•		6.5

050

0

W WWW WWW NWW NWW NAWW

CALM

0888

155

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

E

SURFACE WINDS

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

23239 STATION

MAY

0

0

SPEED (KNTS) DIR.	:	;	7 - 10	a . E	17 - 21	22 - 27	28 - 33	34 . 40	41 - 47	48 - 55	N	*	MEAN WIND SPEED
z					1.3							1.3	18.5
Z													
¥													
Z		•										9.	0.9
3													
ESE													
*													
SSE													
8		1.3	9.									1.9	7.0
SSW			9.									9.	10.0
SW		9.	**	6.1								1.7	6.6
WSW		2.6	6.4	3.9	9.							16.8	9.5
*	•	1.3	14.8	24.5	3.9	1.9						47.1	12,1
WWW	9.		5.2	11.0	1.3							18.7	12.0
M		2.6	1.9	9.								5.2	7.4
NNW				9.								9.	11.0
VARBL													
CALM	\bigvee	X	\bigvee	0.									
	1.3	9.7	37.4	42.6	7.1	1.9						100.0	11.2

TOTAL NUMBER OF OBSERVATIONS

0

0

155

13.5

MEAN WIND SPEED

SURFACE WINDS JAN 78

SURFACE WINDS

E

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

0

0

0

0

0

0

YEARS

16 HOURS (L.S.T.)

ALL WEATHER

L															1	
	8 AI														\bigvee	
	48 - 55														\bigvee	
	41.47														\bigvee	
	34 - 40														\bigvee	
	28 - 33														\bigvee	
	22 - 27									4.5	1.3	9.			\bigvee	6.3
	17 - 21	9.							2.6	_	3.2				\bigvee	17.4
	11 . 16							9.	9	33.5	6.9	9.			\bigvee	47.7
	7 . 10	9.				4.	9.	1.3	3.9	11.6	2.6	1.9	9.		\bigvee	23.9
	•••							1.9	1.3	1.3					\bigvee	4.5
	::														\bigvee	
1											,		— ,	1		

TOTAL NUMBER OF OBSERVATIONS

155

13,3

100.0

13.7

3.6 14.2 13.5 13.5 13.5

0

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

MAY

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77 ALL WEATHER ALAMEDA, CALIFORNIA

WEAN WIND SPEED	6.0	7.0			000	8.0	8.6	11.1	12.1	8.8	10.7	6.7		11.1
×	1.3	9.	T	4	•	9.	3.2	18.7	58.7	10.3	3.9	1.9	0.	100.0
3 6 Al													X	
4 . 55													X	
41.4													X	
4 . 4													X	
8 · 8													X	
n · n									9.				X	9.
17 - 21								1.3	9		••		X	8.4
11 - 16								8.4	31.0	3	-	•	X	45.2
7 . 10	9.	9.			•	9.	2.6	7.7	15.5	3.2	9.		X	32.8
:;	9.						5.	1.3	3.9	1.3	9.	1.3	X	9.7
•									1.3	1.9	9.		V	3.0

SEW SEW WEW WHW WHW WHW WHW WHW WHW CALM

0

0

100

of o

5.0

2.6 13.5 27.1 32.3

1.9

1.30

NW NWW

CALK

3.000

SSW

- 2 2 2 -

(3)

NSW X

10.4

2.0

1.3

1.3

MEAN WIND SPEED

12

22 - 27

17 - 21

11 . 16

7.10

1.3

Z Z Z

0

WINDS SURFACE

> PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

MAY

10

22 HOURS (L.S.T.)

0

0

0

3.9 100.0

3.2

TOTAL NUMBER OF OBSERVATIONS

26.5

155

्र

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

23239

0

0

0

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

5702 SURFACE WINDS JAN 78

1000

HER

TOTAL NUMBER OF OBSERVATIONS

0

1239

MAY	MONTH	ALL	NOURS (L.S.T.)	
73-77	YEAR	ALL WEATHER	crass	COMDITION
ALAMEDA, CALIFORNIA	STATION NAME			

WIND WIND SPEED	0.6	5.0	5.0	3.0	3.6	4.7	4.3	4.8	4.8	0.9	7.4	8.6	11.1	10.2	8.5	7.0			8.5
×	1.9	9.	1.	2.	9.	0.	1.3	1.8	4.5	0.4	8.9	16.2	36.5	10.3	4.2	2.4		5.6	100.0
8																		X	
8 . 55																		X	
41.4																		X	
38																		X	
28 - 33					١.													X	
22 . 22													6.	.2	7.			X	1.1
17 - 21	.2											•	3.1	0.	•2			X	5.2
91 . 11	*.										1.7	3.6	15.9	3.6	0.	۲.		X	27.1
7 . 10	*.	.2			7.	7.	.2	•		1.1	3.3	6.9	10.8	3.1	1.0	*		X	28.8
;	9.	.2	7.	7	~	•	0.		2.3	1.5	5.4	4.2	3.5	1.7	1.5			X	20.7
<u>:</u>	2.	2.		7.	7.	2.			1.5	7.1	1.5	1.0	2.3	œ.	5	٠.		X	11.5
SPEED (KONTS) DIR.	z	Z	¥	Z	2	ESE	*	SSE	•	SSW	š	WSW	*	WWW	ž	NN.	VARBL	CALM	

0

TOTAL NUMBER OF OBSERVATIONS

0

3

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

SURFACE WINDS

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

0

0

0

ALL WEATHER

NOURS (L.S.T.)

2.0 2.7 1.1.3 2.0 2.7 3.3 1.1.3 2.0 2.7 3.3 1.1.3 8.8 1.3 2.0 7.9 1.3 2.0 7.9 1.3 2.0 7.9 1.3 2.0 7.9
2.7
2.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0
2.0 2.0 2.0 33.3 5.3 4.0 7.1
2.0 2.0 2.0 33.3 5.3 4.0 4.0
2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
200 200 200 200 200 200 200 200 33.3 36.3 4.0
22.0 22.0 33.3 33.3 5.3 4.0 4.0 4.0 4.0
22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0
2.0 22.0 22.0 5.3 8.3 8.3 4.0 4.0
22.0 22.0 33.3 7.1 11.3
22.0 2.0 33.3 5.3 4.0 .7 1
2.0 1 7.1 2.2 1.2.0
5.3 4.0 17.1
12.0
12.0

150

TOTAL NUMBER OF OBSERVATIONS

\$

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

04 NOURS (L.S.T.) 73-77 ALL WEATHER ALAMEDA, CALIFORNIA

0

0

0

0

4.6	0	3 . 1	17 - 21	22 - 27	28 - 33	34 . 46	41 - 47	88 - 85	8	*	MEAN WIND SPEED
										3.3	2.8
										1.3	1.5
										1.3	4.0
											3.0
										1.3	3.0
1										• 1	2.0
										2.7	4.5
										2.0	2.3
	2.7									6.3	6.8
	3.3	1.3								10.0	6.9
	7.3	4.0								19,3	7.6
	9.3	5.3								26.0	7.6
	4.0									€ 6	5.9
										L.4	2.4
										1.3	3.0
1/\	V	X	\bigvee	10.7							
	26.7	10.7								0.001	5.6

0

TOTAL NUMBER OF OBSERVATIONS

1

4

SURFACE WINDS

9894

NOURS (L.S.T.)

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALAMEDA, CALIFORNIA

ALL WEATHER

7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55						1,3		2,0 ,7	9.3 1.3	10.01 1.3 .7	3,3		2.2		E V.7 E.70
4.4	1.3			۲.	2.0	2.0	1.3	3.3		6.0 1	٠,	2.7	2.7	\bigvee	

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

0

0

TOTAL NUMBER OF OBSERVATIONS

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

NOURS (L.S.T.) NOW HELD 73-77 ALL WEATHER CONDITION ALAMEDAS CALIFORNIA

0

0

0

0

SPEED (KNTS) DIR.	-: -:	*:	7 . 10	1 . 16	17 - 21	22 - 22	28 - 33	34 - 40	41 - 47	48 - 55	% A1	*	MEAN WIND SPEED
z			.7									1.3	5.0
NN													
SK.													
ENE													
3													
ESE													
SE	1.3											1.3	2.5
SSE		1.3										1.3	4.5
S	3.3	5.3										6.6	4.3
SSW	2.0	2.7										5.3	4.8
SW	2.7	6.0	3.3	.,								10.7	5.5
WSW	4.7	8.0	4.	4.0								24.0	6.7
*	3,3	5.3	-	3.3								25.3	7.4
WWW	2.0		0.4	.1								6.7	8.9
NN		4.0	1.4	1.3								10.0	7.5
NNW			.7	.7								2.7	7.5
VARBL													
CALM	\bigvee	\bigvee	X	X	X	\bigvee	\bigvee	X	X	X	X	2.0	
	20.7	31.3	35.3	10.7								100.0	6.3

5702 SURFACE WINDS JAN 78

0

9.0

8.1

NW VARBL

CALM

WNW

0

SSW

s

25 25 25 SE SE

WSW

*

SW

150

TOTAL NUMBER OF OBSERVATIONS

0

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

ALAMEDA, CALIFORNIA STATION NAME

73-77

YEARS

CONDITION

ALL MEATHER

13 HOURS (L.S.T.)

SPEED (KNTS) DIR.

N N N

0

10.9 10.4 11.1 MEAN WIND SPEED 3.3 0. 100.0 2.0 * 128 48 - 55 41 - 47 34 - 40 28 - 33 22 - 27 2.0 0.4 17 - 21 44.0 13.3 11 . 16 36.7 15.3 7 - 10 2.00.2 12.7 4.6 -3

DIRNA VOCEANMET SMOS

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

0

0

0

5702 SURFACE WINDS JAN 78

6.5

WIND SPEED

*

128

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

Ē

WINDS

SURFACE

73-77

ALAMEDAS CALIFORNIA STATION NAME

ALL WEATHER

NOURS (L.S.T.)

SHOW

22 - 27

17 - 21

11 - 16

7.10

4.6

1.3

SPEED (KNTS)

10.7 8.0 18.7 2.7

..

6.7

2.00 2.0

30.0

TOTAL NUMBER OF OBSERVATIONS

150

12.0

100.0

2.0

7.3

56.0

30.7

0

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 0

0

SW WSW

* WW

NNW NAW

CALM

5.7

2.0

MEAN WIND SPEED

3.0

30.0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

A COLUMN TOWNS THE PERSON NAMED AND THE PERSON NAME

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

28 - 33

22 - 27

17 . 21

11 . 16

7.10

4.6

1.3

2.0

28.7

2.0

WNW NW NW NAW

CALM

2.0

SSW

(0)

WSW WSW

0

TOTAL NUMBER OF OBSERVATIONS

150

10.3

100.0

0.

DIRNAVOCEANMET SMOS

3.0

2.0

MEAN WIND SPEED

*

12

48 - 55

41 - 47

34 - 40

11 . 16

7.10

4.6

1.3

SPEED KNTS)

Z Z Z

0

2.0

5.3

120.7

1.3

2.0

2.7

*

SSW WSW WSW

.

2 2 2

0

NW NWW VARBL

4.5

4.0

100.0

2

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

SURFACE WINDS

ALAMEDA, CALIFORNIA

ALL WEATHER

73-77

23239

0

0

0

0

22 HOURS (LS.T.)

CONDITION

28 - 33
n · n
17 · 21

TOTAL NUMBER OF OBSERVATIONS

21.3

33.3

24.7

15.3

CALM

150

DIRNAVOCEANMET SMOS

0

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

1200

TOTAL NUMBER OF OBSERVATIONS

73-77 ALAMEDA, CALIFORNIA

ALL WEATHER

ALL HOURS (L.S.T.)

CONDITION

0

0

STED (RNTS) DIR.	1.3	•	7.10	91 - 11	17 . 21	22 - 27	28 - 33	34 - 46	41.4	48 - 55	8	×	MEAN WIND SPEED
z	1.0	•	.2									1.9	3.8
NNE	. ·	. 2											3.1
¥	1.	1.										.2	4.0
ENE	1.											1.	3.0
8	2.											.2	3.0
ESE	5°	.2											3.0
38	2'											.2	2.5
SSE	2.											6.	4.4
s	1.2	6.	.3									2.4	4.1
SSW	6.	1.7	1.0	.2								3.8	5.7
SW	1.2	2.7	3.4	1.3								9.8	7.2
WSW	1.8	4.8	7.7	9								21.0	8.6
*	2.7	5,2	13.1	14.2	1.7	.2						37.2	10.0
WWW	1.0	1.7	3.4	3.	4.	.1						8.6	9.4
N.	6.	1.9	1.5	•								8.4	6.1
NNW	* *	6.	.3	.2							~	1.9	6.2
VARBL													
CALM	\bigvee	\bigvee	\bigvee	\bigvee	X	\bigvee	\bigvee	\bigvee	X	X	X	9.6	
	12.7	21.8	31.1	25.8	2.6	.3						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

SURFACE WINDS

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

23239 STATION

0

0

0

0

0

NOURS (L.S.T.) JOH HONTH

MEAN WIND SPEED		3.5				20.0	5.0	5.0	5.0	6.3	7.0	8.0	8.2	7.5	4.7	2.3			7.0
×		1.3				9.	9.	9.	3.2	5.8	12.9	22.6	33.5	8.4	1,9	1.9		6.9	100.0
1286																		X	
48 - 55																		X	
41 - 47																		\bigvee	
34 - 40																		\bigvee	
28 - 33																		X	
22 - 27																		X	
17 - 21						•							9.					X	1.3
11 - 16										9.		3.9	5.8	9.				X	11.0
7 - 10									1.3	1.9	8.4	12.3	16.1	3.9	9.			X	44.5
•		9.					•	••	9.	1.9	3.2	4.5	0.6	3.2	•	•		X	25.8
1.3		9.							1.3	1.3	1.3	1.9	1.9	•	9.	1.3		X	11.0
SPEED (KNTS) DIR.	z	NNE	¥	34	3	ESE	*	SSE	s	ASS	NS.	WSW	*	WWW	3	NNW	VARBL	CALM	

MEAN WIND SPEED

*

128

22 - 27

17 - 21

11 . 16

7 . 10

4.6

1:3

SEN SE

0.1

5.3 14.8 22.6 28.4 7.1

2.6

12.9

13.0

9.0

1.3 9.

WINDS SURFACE

> PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

23239

YEARS

04 HOURS (L.S.T.)

ALL WEATHER

TOTAL NUMBER OF OBSERVATIONS

155

5.9

100.0

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC











- 2 = 3 -



•

10.00

12.3

2.5.2



SSW WSW





WWW NAW



CALL



12.9

31.6

24.5

18.1





MEAN WIND SPEED

NOURS (L.S.T.)

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

0

0

0

0

ALL WEATHER

DIRECTION AND SPEED

5702 SURFACE WINDS JAN 78

Z

ZZ

155

TOTAL NUMBER OF OBSERVATIONS

5.1

10000

0

0.9 2.8 5.8 12.3 23.2 21.9 3.2 9. 1.9 15.5 * 12 48 - 55 41 - 47 34 - 40 28 - 33 22 - 27 17 - 21 3.9 11 - 16 2.6 7 . 10 ... 1.3

WWW NWW NWW NAW

CALM

SW WSW

- 2 - 3 -

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

111

SURFACE WINDS

0

0

Ē

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

0

0

0

0

0

(FROM HOURLY OBSERVATIONS)

13 HOURS (L.S.T.) YEARS 73-77 ALL WEATHER CONDITION ALAMEDA, CALIFORNIA

-:	• •		7 - 10	11.16	17 - 21	22 - 27	28 - 33	34 . 46	41.47	48 - 55	% AI	*	MEAN WIND SPEED
			•									9.	10.0
N.K.													
Z.													
		•										9.	4.0
_													
				0.								9.	14.0
		1.9	6.9	1.9								10.3	9.1
WSW	9.	1.3	6.9	6.5								14.8	10.4
		3.9	18.7	21.9	3.2							4.4.4	111
WWW		5.2	3.2	7.7	9.					8		16.8	9.8
WM		E . 1	3.9	2.6								7.7	9.1
NNN			••									9.	8.0
VARBL													
CALM	\bigvee	$\langle \rangle$	X	X	\bigvee	\bigvee	\bigvee	\bigvee	X	X	\bigvee	0.	
	9.	4.2	40.0	41.3	3.9							100.0	10.4

5702 SURFACE WINDS JAN 78

0

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

0

1

200

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

0

0

0

0

0

0

16 HOURS (L.S.T.)

COMBITION

- 1	170 00 00	
	12.24	
	1000	41 - 47
-3		
537		
	100	
		_
- 1	10000	-
	100	
		CALL THE STREET
- 1		
	W/ 11 (2	
		•
		34 - 40
	100	
	77 77 78	_
	HIPPORT DON ON	
123	THE PARTY	Action and the second
	E TOTAL COLUMN	A 200 Page 25
		great reservations and the
	0.00	
- 1		A STATE OF THE STA
-50		
	12 1 1 2 3 5 7 7	- m
	1. 53	28 - 33
	A	
	0.000	•
	100000000000000000000000000000000000000	~
- 17		
	R. Wille	
	1.00	
	F. Jr. v. E.	
		22 - 27
	E-8 T-1 1-1	
		KENSON STANSON
		~
	1000000	2
	A.W	
2		CALL TO A 1074-011
		A CONTRACTOR OF THE PARTY OF TH

SPEED (KNTS)	1:3	••	7 . 10	8 16	17 . 21	22 - 22	28 - 33	34 - 40	41 - 47	48 - 55	% A1	*	MEAN
DIR.													- 1
Z				•								0.	11.0
NNE													
¥													
E													
-													
25													
*													
386													
8				9.								9.	12.0
SSW													
SW			1.9									5.6	10.0
wsw		3.2	2.6	4.5								E*01	10.0
*	9.	2.	10.3	38.1	9.7	9.						6.10	
WWW	9.	1.3	\$		9.							6.12	=
M			1.9									6.1	8
NNN													
VARBL											· ·	4	
CALM	\bigvee	\bigvee	X	X	\bigvee	0.							
	1.3	7.1	22.6	58.1	10.3	4.						100.0	12.3

TOTAL NUMBER OF OBSERVATIONS

155

TOTAL NUMBER OF OBSERVATIONS

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

23239 STATION

0

0

0

0

0

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS)

-

SURFACE WINDS

HOURS (L.S.T.) 3 73-77 ALL WEATHER COMBITION ALAMEDAS CALIFORNIA

(KNTS) 1 · 3	-	NNE	7	ENE	255	358		SSW	SW	WSW		WWW		NNN	VARBL	CALM	
										9.						$\langle \rangle$	9.
:	0.							0.	5.6	5.2	4.5	0.		9.		\bigvee	8.4
7 . 10	9.	9.						9.	3.9	3.9	15.5	5.2	7.9			X	32.3
11 - 16							9.			5.2	29.7	7.1				\bigvee	42.6
17 - 21											7.1	2.6				\bigvee	4.6
<i>u</i> · <i>u</i>																\bigvee	
28 - 33																\bigvee	
34 - 40																\bigvee	
41.4																\bigvee	
48 · 55																\bigvee	
89 Al																\bigvee	
×	1.3	9.					9.	1.3	6.5	14.8	8.95	15.5	6.1	••		0.	100.0
MEAN WIND SPEED	5.5	8.0					12.	6.5	7.3	8.1	12.	-	8.0	5.			11.

DIRNAVOCEANMET SMOS

8.0

9

MEAN WIND SPEED

×

12

22 - 27

17 - 21

11 . 16

7 - 10

4.0

-

SPED ENTS)

5702 SURFACE WINDS JAN 78

5.0

.

of o

7.7

3.9

7.9

17.4

1.3

2.6

000-4

SW WSW

X X X - X - X

WWW NWW

8,0

5.8 1.3

SURFACE WINDS

1080

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALAMEDA, CALIFORNIA

0

0

0

0

(6)

0

WEATHER

ALL

YEARS

22 HOURS (L.S.T.)

3

TOTAL NUMBER OF OBSERVATIONS

8.2

100.0

23.2

41.3

22.6

6.5

CALM

5.2

155

0

DIRNAVOCEANMET SMOS

0

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

9 40

23239

0

0

0

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

E

SURFACE WINDS

73-77 ALL WEATHER CONDITION ALAMEDAS CALIFORNIA

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

AUG	HONTH	10	HOURS (L.S.T.)
73-77	YEAR	ALL WEATHER	CLASS
A, CALIFORNIA	STATION NAME		

SPEED (KNTS) DIR.	::	•	7 - 10	1 · 16	17 - 21	22 · 23	28 - 33	34 - 40	41 - 47	48 - 55	VI 36	×	MEAN WIND SPEED
z													
N.	9.											9.	2.0
NE													
ENE													
•		•										9.	5.0
ESE	9.	9.										E • 1	3.
35													
SSE		9.										9.	4.0
s		1.3										1,3	5.0
SSW	9.	•	1.3									2.6	0.9
AS.	1.9	2.6	4.5		T							0.6	5.9
WSW	9.		8.4	4.5								18.1	8.3
*	2.6		23.5	6.5	9.							39.4	8.5
WNW	3.9	3.9	3.2	1.9								12.9	6.4
**	1.3	1.9	•									3.9	4.5
MNN		g.										9.	4.0
VARBL													
CALM	\bigvee	X	X	X	X	X	X	\bigvee	X	\bigvee	\bigvee	0.6	
	12.3	23.9	41.3	12.9	9.							100.0	9

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MON	момти	40	NOURS (L.S.T.)	
	YEARS	ER		
		ALL WEATHE	CLASS	CONDITION
der and a second	STATION NAME			
THEORY CALLES				

0

0

0

MEAN WIND SPEED	4.0				2.3	3.5	3.0	4.0		6.0	7.9	7.6	8.4	5,2	3.5				6.2
×	9.				1.9	2.6	9.	9.		1.9	10.3	20.6	32.3	12.3	5.6	1.9		11.6	100.0
% Al																		X	
8 - 55																		X	
41 - 42																		\bigvee	
3 . 4																		\bigvee	
28 - 33																		\bigvee	
22 - 27																		\bigvee	
17 - 21																		X	
11 - 16											1,9	3.6	5.2	•				X	11.0
7 . 10						•				1.3	4.5	6.7	19.4	5.6				X	38.1
-	9.							0.			3.9	5.8	5.8		1.9	-		X	24.5
:					1.9	1.9	0.			9.		1.9	1.9	4.5	9.	9.		X	16.8
SPEED (KNTS) DIR.	z	N.	¥	ERE	w	ESE	35	SSE	s	SSW	SW	WSW	>	WW	¥	NN	VARBL	CALM	

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

155

TOTAL NUMBER OF OBSERVATIONS

100 HOURS (1.5.T.)

AUG

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73-77 ALL WEATHER ALAMEDAS CALIFORNIA

23239

0

CONDITION

3 34-40 41-47 48-55 ≥56 % WIND SPEED	1.9 2.3				2,6 4,0	0.4 0.	1.3 7.0	1.3 4.0	4.5 6.3	8.4 7.2	16.8 7.2	33,5 6,5	10,3 5,1	4.5 4.6	1,3 3,5		12.9	4.3
17 - 21 22 - 27 28 - 33																	X	
7.10							9.		1.9		7.1 1.9			9.				1 7 7 96
::	1.9				6.1.9	8.	9.	1.3	2.6	.6 2.6	1.9 5.8	4.5 13.5	2.6 3.9	1.9 1.9	9. 9.		X	3 36 B 41
SEED CRNTS) DIR.	z	NN.	Z	•	ESE	38	388	8	SSW	SW.	WSW	*	WWW	M	MAN	TABL	ALM:	

(3

DIRNAVOCEANMET SMOS

SURFACE WINDS JAN 78

WIND SPEED

*

28 - 33

22 - 27

17 - 21

11 . 16

7.10

1.3

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

10 HOURS (1.5.T.)

6.5 12.3 25.6 12 48 - 55 41 . 47 34 - 49

2.0

4.5

5.7 6.9 7.1

3.8

2.08.91.

NW NW

CALM

2.2 8.6 2.7

WSW WSW

*

SSW

Z Z Z Z Z Z Z Z Z Z

0

0

6.3 8.0

5.8

TOTAL NUMBER OF OBSERVATIONS

155

6.1

100.0

39.4

4.5

1100

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

3

NOURS (L.S.T.)

AUG

PERCENTAGE FREQUENCY OF WIND

The state of the s

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

DIRECTION AND SPRED (FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

	93.
3.4	80.00
- 1000	
	V 1
	100 M
	0.0
	P
	15 3 5 To 10
	the state of the s
	=
	0
	-
	15
0.00	1=
	12
	IX.
- 300	K 112/2011
7 .00	1 7 C TO
S. XAME	100
	1900-000

0

0

SPEED 1	z	NNE NNE	¥	W.	353	3	388	•	ASS	as we	MSM	*	WHW	NW.	NNW	VARBL	CALM	
•						9.				9.		1.3	9.				V	
;								1.3		1.3	2.6	5.5	2.6	2.6			X	
7 . 10										1.9	3.2	21.9	11.0	1.3	9.		\bigvee	
91 - 11												29.2	9.8	9'			\bigvee	
17 - 21												1.9					\bigvee	
2.2																	\bigvee	
28 - 33																	\bigvee	
34 - 40																	\bigvee	
41 - 47																	\bigvee	
48 - 55																	\bigvee	
8																	X	
*						9.		1.3		3.9	12,9	53.5	22.6	4.5	9.		0.	
MEAN WIND SPEED						3.0		5.5		6.8		10.3	6.5	7.1	8.0			

OF

11.2

2.6

5.8

3.5

1.9

WNW NW NW VARBL

0

CALM

0

63

3.6

SSW

- 2 2 2 2

0

WSW

SW

10.0

1.3

0.

NOURS (L.S.T.)

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

SURFACE WINDS

ALAMEDA, CALIFORNIA

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALL WEATHER

0

0

* 8 48 - 55

> . 47 =

34 . 40

28 - 33

22 - 27

17 - 21

11 . 16

7 - 10

-:3

Z Z Z Z

0

MEAN WIND SPEED

TOTAL NUMBER OF OBSERVATIONS

155

11.9

100.0

58.1

===

0

DIRNAVOCEANMET SMOS

1.3

MEAN WIND SPEED

*

12

48 - 55

4

=

7 - 10

4.6

-3

SPEED (KNTS)

10.4

65.8 15.5

•

4.5

31.0

23.9

1:9

WNW NWW

CALM

SW SW

Z Z Z ~ Z ~ Z ~ X

0

WSW

9.4

1.3

SURFACE WINDS

808

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

1		
1		
1		
۱		
1		
1		
١		
١	*	
1	2	
١	-	
١	CHDITION	
Н	2	
1	Q	
ı	v	
1		
1		

. 14				
34 - 40				
28 - 33				
n - n				
17 - 21				
91 -				

TOTAL NUMBER OF OBSERVATIONS

10.6

100.0

43.9

36.8

.

155

DIRNAVOCEANMET SMOS

SURFACE WINDS JAN 78 5702

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

The state of the s

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

22 HOURS (L.S.T.) 73-77 ALL WEATHER ALAMEDA, CALIFORNIA

AUG

MEAN WIND SPEED	3.0					3.0	3.5	4.0	12.0	0.4	5.6	7.7	8.4	7.2	4.0	0.6			7.0
×	9.					9.	1.3	9.	9.	1.9	4.8	23.2	45.6	11.6	1.3	9.		6.5	100.0
8																		X	
48 - 55																		X	
41.47																		X	
3 . 4																		\bigvee	
28 - 33																		\bigvee	
22.27																		X	
17 - 21													9.					X	0.
ş. ::									9.		0.	5.8	7.1	1.9				X	16.1
7 - 10											2.6	7.7	22.6	4.5		9.		X	38.1
:							9.	9.		1.9	3.2	7:7	6.1	3.2	1.3			X	27.7
:	•					9.	9.				1.9	2.6	5.6	1.9				X	11.0
SPEED (KNTS) DIR.	z	NNE	¥	FNE	3	353	38	SSE	8	ASS	NS.	WSW	*	WWW	NW	NNW	VARBL	CALM	

0

3

0

=

155

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

ALAMEDA, CALIFORNIA

0

0

0

0

0

0

ALL WEATHER

73-77

YEARS

CONDITION

MEAN WIND SPEED	3.4	2.0			3.0	6	3.2	5.2	5.2	0.9	9.9	8.2	9.6	8.2	5.2	6.2			7.9
×	9.	1.			.3	6.		7.	1.5	2.4	7.1	17.0	45.6	14.1	2.9	1.0		9.6	100.0
8																		X	
48 - 55																		X	
41 - 47																		\bigvee	
¥ . \$																		\bigvee	
28 - 33																		\bigvee	
2.27													•1					\bigvee	• 1
17.21												.1	1.7	.1				\bigvee	1.9
= :									.1	2.	••	4.4	14.9	4.1	2.	.1		\bigvee	36.2 24.4
7 . 10						.1		1.	.1	.1	3.2	6.7	19.4	5.2	3.	.3		\bigvee	36.2
:	.2				7.	.3	.2	.3	1.1	1.0	2.6	4.4	7.9	5.9	1.6	¥.		X	22.7
:	. 3				.2	6.	.3		7,	5.	6.	1.4	2.0	1.9	9.	.2		X	9.0
SPEED (ENTS) DIR.	z	MME	¥	Z	•	ESE	*	388	8	SSW	SW	WSW	*	WWW	MW	NNA	VARBL	CALM	

SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

1240

TOTAL NUMBER OF OBSERVATIONS

HOURS (L.S.T.)

SEP

E

SURFACE WINDS

DIRECTION AND SPEED

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

23239

0

0

0

YEARS

CONDITION

17 - 21

11 . 16

7 - 10

4.6

1.3

SPEED (KNTS) DIR.

Z Z Z Z

0

0

0

MEAN WIND SPEED	2.0	0.4	3.0	2.5	5.0	0.4	0.9	0.9	6.3	1.0	7.3	1.1	5.2	4.3	3.0		5.7
×	1.			1.3		1.3	1.3	4.7	2.0	7.3	20.0	30.7	8.0	0.8	1,3	111.3	100.0
3 6																X	
8 . 35																X	
41.4																X	
3 6																X	
28 - 33																X	
22 · 27																X	
					-											1	711

2.7

14.9

6.0

SSW WSW

- 12 25 25 S

2.002

NWW NWW

CALM

0 0

0

0

TOTAL NUMBER OF OBSERVATIONS

8.0

31.3

32.0

0

150

0

1

DIRNAVOCEANMET SMOS

0

3.7

4.1

MEAN WIND SPEED

*

8

6.3

2.0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77

ALAMEDA, CALIFORNIA

NOURS (L.S.T.) SEP

ALL WEATHER

,	

CONDITION	ı			
COMBITION	I			
CONDITION	ı			
COMBITION	l			
COMBITION	١			
COMBITIC	۱	3	E	
COMBI	ı	ŀ	ı	
8	I	F	5	
8	I	F	ŧ	
	l	ì	5	
	l			

*				
41 - 47				
34 - 40				
28 - 33				
22 - 27				
17 . 21		100		
11 - 16				
7 . 10				

*:

1.3

				. 7		. 7	1.3	.7	8.7	
Section 1					.,				.,	
		112								
_						_				L

Z Z Z Z - Z Z Z -

0

5.3

ASA X

SSW

WW

			X	
			$\langle \rangle$	
			A	
			X	
			\bigvee	

NAW VARBL

CALM

4.8

OBSERVATIONS	
1	
ö	
NUMBER	
TOTAL	

1888

150

5,3

100.0

11.3

0

1

2.0

MEAN WIND SPEED

28 - 33

. 27 22

17 - 21

11 . 16

7 - 10

4.6

-3

SPED ENTS

0

- 2 2 2

.

SURFACE WINDS JAN 78

WINDS SURFACE

0

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

23239

0

0

0

0

ALL WEATHER

HOURS (L.S.T.)

SEP 07

COMBITION

0.9 14.0 100.0 2.7 * 12 48 - 55 41 - 47 34 - 40

2.7

4.1

WSW W

NW NW

VARBL CALM

10.21.2

5.8

4.6

2.8

TOTAL NUMBER OF OBSERVATIONS

25.3

33.3

23.3

150

4.6

0

0

0

SOWS DIRNAVOCEANMET

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

0

0

0

0

0

0

COMBITION

NOURS (L.S.T.)

SEP

MEAN WIND SPEED	5.3	5.0				0.6	5.6	5.1	3.5	3.5	5.6	6.9	5.0	5.7	4.6			5.2
*	2.0					1.3	3.3	13.3	8.7	5.3	18.7	24.7	7.3	2.0	7.3		5.3	100.0
% Al																	\bigvee	
4 . 55																	X	
4.4																	\bigvee	
3 6																	\bigvee	
28 - 33																	\bigvee	
22.27																	\bigvee	
17 - 21																	\bigvee	
. i								.7				4.0		.7			X	6.7
7 . 10							۲.	2.7	۲.		5.3	6.6	2.0		1.3		X	22.0
:	2.0	٠.				1.	2.0	6.0	2.7	1.3	8.0	6.7	2.7	. 7	3.3		X	36.7
:: ::							4.	4.0	5,3	0.4	4.7	4.7	2.7	. 7	2.7		X	29.3
(KNTS) DIR.	z	NNE	7	3	353	35	388	s	SSW	NS.	WSW	*	WWW	W	NNN	VARBL	CALM	

0

TOTAL NUMBER OF OBSERVATIONS

5702 SURFACE WINDS JAN 78

0

...

0

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

Ē

SURFACE WINDS

YEARS

73-77

ALAMEDA, CALIFORNIA

23239

ALL WEATHER

13 HOURS (L.S.T.)

SEP

CONDITION

MEAN WIND SPEED *

> . 55 4

41 - 47

34 - 40

28 - 33

22 - 27

17 - 21

11 - 16

7 - 10

4.6

1.3

SPEED KNTS)

6.9 10.0 6.5 . 12

6.8 6.6 10.3 9.2 12.0 16.0

8.9 6.9 8.1 10000 5.3

TOTAL NUMBER OF OBSERVATIONS

150

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

Z Z Z Z Z Z Z Z Z Z Z Z

NW NW

VARBL

CALA

17.3

25.3

25.04

WSW WSW

*

SSW

26.0

51.3

20.0

0

MEAN WIND SPEED

*

128

48 - 55

41 - 47

34 - 40

28 - 33

22 - 27

17 - 21

11 . 16

7 - 10

4.6

1.3

SPEED (KNTS) DIR.

10.5

1.3

8.0

1.3

0.

9.0

0

SEP

16

SURFACE WINDS

200

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

23239 STATION

0

0

0

0

0

4.7

1.3.3

19.3 19.3 1.3

NW NW NAW

CALM

1

2.0

WSW WSW

0

*

SSW

.

0

2.0

TOTAL NUMBER OF OBSERVATIONS

150

11.5

100.0

5.3

54.7

36.0

2.7

DIRNAVOCEANMET SMOS

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

-

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

0

0

0

19 HOURS (L.S.T.)

SEP

CONDITION

SPEED (KNTS) DIR.

z z z z

MEAN WIND SPEED	6.2			0.4	7.0	13.0	10.0	8.3	7.6	10.3	7.5	4.8	5.0	-
×	3.3			4.			4.	2.7	7.3	1.99	11.3	3.3	4.	
9														
8 . 35														
41.4														
34 - 46				1										
28 - 33														
z · z														
17 - 21										•			-	
51 · 16				Ī				1.3	1.3	28.0	1.3			
7 . 10									3.3	30.7	5.3	1.3		
:	2.0							1.3	2.0	0.9	0.4			-
				+						1.3		2.0		-

TOTAL NUMBER OF OBSERVATIONS

150

100.0

2.0

NW NNW VARBL

CALE

WSW WWW

SSW

0

0

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77

2

SURFACE WINDS

YEARS ALL WEATHER COMBITION ALAMEDA, CALIFORNIA

22 HOURS (L.S.T.)

SEP

6.4 4.0 6.4.6.6 6.4 MEAN WIND SPEED 100.0 • * 12 48 - 55 41 . 47 34 - 40 28 - 33 22 - 27 17 - 21 1.3 14.0 11 . 16 32.7 2.0 6.7 7.10 25.3 4.0 19.3 -:3 NW NWW X X X - X X -WSW WWW SPEED (RNTS) DR. SSW CALM

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

23239

0

0

0

2.9

200000

6.0

13.9

14.0

SK

MSM

22 22 23

X X X ~

0

0

0

0

0 SSW NN N

1.1

5.5

6.5

100.0

19.2

33.7

NW NWW

CALM

MEAN WIND SPEED

*

12

. 55 4

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

000

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

SURFACE WINDS

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

23239

0

ALL WEATHER

YEARS

ALL HOURS (L.S.T.)

SEP

COMBITION

34 - 40		
28 - 33		
12 - 17		
17 - 21		
2	7.	

=

7 . 10

4.6

SPEED (KNTS) DIE.

TOTAL NUMBER OF OBSERVATIONS

1200

DIRNAVOCEANMET

MEAN WIND SPEED

5.500

8.0.4

W 90 9 9

000

11.0

3.1

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

23239

YEARS

NOURS (L.S.T.)

100

COMBITION

22 - 27

28 - 33

17 - 21

11 - 16

7 - 10

...

1.3

SEED SEED

0

0

0

0

0

*	3.9	1.3	9.	1.9	5.5	3.2	1.9	3.9	3.2	1.9	5.8	7.7	18.1	0.6	4.5	7.7	20.0	100.0
38																	\bigvee	
48 - 55																	X	
41 - 47																	X	
4 .																	V	

1.3

0

1.3

..

1.9 1.9 1.9 1.9

SW WWW WANW

•

NW NAW

CALM

TOTAL NUMBER OF OBSERVATIONS

9:7

12.3

34.2

23.9

155

4.5

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

The state of the s

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

E

SURFACE WINDS

ALL WEATHER

NOURS (L.S.T.)

OCT .

YEARS

73-77

ALAMEDA, CALIFORNIA

0

0

0

0

SPEED (KNTS) DIR.

Z Z Z Z

0

MEAN WIND SPEED	4.4	4.6	1.0	1.0	3.0	5.4	9.9	6.8	4.5	7.0	5.3	5.5	6.1	4.8	5.0	4.8		4.3
×	7.7	5.2	9.	9.	4.5	3.2	5.8	2.6	1.3	1.3	5.8	5.2	19.4	8.4	1.9	7.7	18.7	100.0
8																	X	
48 - 55																	X	
41.4																	X	
4 . 4																	X	
28 - 33																	X	
n · n																	X	
17 - 21																	X	
1 . 16							1.9							9.			X	2.6
7 - 10	1.9	1.3				1.3	9.	1.3		•	1.3	1.3	0.6	1.9	9.	3.2	X	24.5
;	1.9	1.3			1.3	9.	9.	•	1.3	9.	3.2	5.6	5.8	1.9	9.	1.3	X	23.9
	3.9	2.6	9.	5	3.2	1.3	5.6	9.			1.3	1.3	4.5	3.9	9.	3.2		E.0.

WWW NWW NAWW

CALM

WSW WSW

SSW

SS SS S

155

TOTAL NUMBER OF OBSERVATIONS

MEAN WIND SPEED

12

22 - 27

17 - 21

11 . 16

7.10

-:

6.0

5.8 5.2 11.6 5.8

15.5

3.6

2.8

5.8

0

0

200

NOURS (L.S.T.)

SURFACE WINDS

DIRECTION AND SPEED

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

YEARS

155

20.0

100.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS





NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

































X X X - 2 3 3 5











000

3.9

1.9.0

4.9

SSW

NSW WAR *





NA AN



CALM







TOTAL NUMBER OF OBSERVATIONS

0

HOURS (L.S.T.) 2 UCT .

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

Ē

SURFACE WINDS

73-77

ALAMEDA, CALIFORNIA

23239

ALL WEATHER

COMBITION

MEAN WIND SPEED	5.7	0.9	17.0	7.0	3.0	7.5	4.3	3.8	3.6	***	8.4	5.3	7.4	6.1	6.8		5.1
*	6.5	1.3	9.	0.	9.	6.5	5.8	12.3	3.2	8.4	11.0	13.5	5.8	5.8	11.6	0.0	100.0
\$ Al																	
48 - 55																	
41 - 47																	
3 6																	
28 - 33																X	
n · n																	
17 . 21			9.			9.							9.		9.		2.6
91 . 1						•						1.3		1.3	1.9		5:2
7 . 10	3.2	•		9.		0.	•	1.3		1.3	1.9	2.6	1.3	9.	•		15.5
:	1.9	9.				3.9	3.2	3.9	5.6	4.5	6.5	7.7	3.2	5.6	6.5	>	13
	1.3				0	9.	1.9	7.1	0.	5.0	5.6	1.9	0.	1.3	1.9	1	13.2

N N N

0

0

SPEED (KNTS) DIR.

0

0

- 2 2 2 -

SSW SW

WSW WWW WWW NWW NWW NWW NWW

CALM

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDAS CALIFORNIA

13 HOURS (L.S.T.)

0

0

	4	
L		
	41 - 47	
	34 - 40	
	28 · 33	
	2.2	

STED (ENTS)	:	:	7.10	÷ :	17 - 21	22 - 27	28 · 33	4 . 4	41 - 47	48 - 55	8	×	MEAN WIND SPEED
z		2.6	1.9									4.5	4.9
MA													
×													
34				••								9.	12.0
9													
ESE													
*		9.		•								1.3	8.5
32					4							9.	18.0
•	3.2	2.6	1.9		9.							8.4	5.8
SSW	1.3	1.9		1.3								4.3	0.0
NS.	9.	2.6	1.3	9.								5.2	6.5
WSW	6.1	3.9	2.6	•								0.6	0.0
*	6.1	5.8	13.5	3.		••						25.8	8.2
WWW	1.3	5.2	6.7	1.3								17.4	7.3
MM		2.6										0.6	1.1
NNW		5.2	2.2	9.								11.0	6.9
VARBL													
CALM	X	\bigvee	X	X	X	X	\bigvee	\bigvee	\bigvee	X	\bigvee	2.6	
	10.3	32.9	45.6	9°.7	1.3	9.						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

0

MEAN WIND SPEED

*

128

48 - 55

41 - 47

5702 SURFACE WINDS JAN 78

SURFACE WINDS

E

YEARS

73-77

ALAMEDA, CALIFORNIA

23239

0

0

0

0

ALL WEATHER

16 HOURS (L.S.T.)

11 . 16

7 . 10

4.6

-

STEED SEED

0

0

34 - 46

•

- 3 3 5 -

14.0

9.

3.5

.

00

•

23.2

NAW NAW VARBL

3

23.5

WSW

*

3

SSW

10.2

51.0

4.8

TOTAL NUMBER OF OBSERVATIONS

33.5

45.2

16.1

0

155

9.5

10000

0

1

DIRNAVOCEANMET SMOS

0

0

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS)

DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

TOTAL NUMBER OF OBSERVATIONS

19 HOURS (L.S.T.)

=

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

ALL WEATHER ALAMEDA, CALIFORNIA

0

0

0

0

73-77

MEAN WIND SPEED	5.1	6.2	0.9				20.0	10.0	13.0	8.7	5.0	8.4	7.5	8.4	2.0	7.3			7.1
*	5.8	3.2	9.				9.	1.3	2.6	1.9	1.3	13.5	39.4	11.0	8.4	3.9		6.5	100.0
8																		X	
8 . 35																		X	
4.4																		X	
34 - 46									4									\bigvee	
28 - 33																		\bigvee	
2.2																		X	
17.21		į					9.	9.	9.			1.3		0.				X	3.9
a									1.3			1.9	6.9	5.6		9.		X	12.9
7 . 10	1.3	1.3							9.	1.9	•	5.8	17.4	3.2	1.9	1.9		X	36.1
;	3.2	1.3	9.									2.6	6.4	2.6	4.3	9.		X	25.2
:	1.3	9.						9.			5.	1.9	5.8	1.9	1.9	9.		X	15.5
SENTS) DE.	z	N.	¥	H	-	ESE	*	386	•	SSW	AS	ASA	*	WWW	¥	NNN	VARBL	CALM	

0

DIRNAVOCEANMET SMOS

3.

5.0

0.6

23.2

2.00

1.000

2.000

NW NWW VARBL

CALM

1.9

1.9

SSW

.

0

WSW *

38

1.3

2 2 2

0

5.3

2.6

20.6

10000

11.0

19.4

26.5

SURFACE WINDS

1

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

20

0

0

0

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

WEATHER

ALL

22 HOURS (L.S.T.)

130

MEAN WIND SPEED 2.6 1.9 4.5 * 128 48 - 55

41 - 47

34 - 40

28 - 33

22 - 27

17 - 21

11 . 16

7.10

--

SPEED KNTS)

0

0

2.0

0.0 10.7

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

ALL WEATHER

ALL HOURS (L.S.T.)

100

SURFACE WINDS

SPEED (KNTS) DIR.	:	:	7 . 10	1.16	17 - 21	n · n	28 . 33	34 - 40	4.4	48 - 55	% AI	×	MEAN WIND SPEED
z	2.4	1.7	1.3	1.								5.5	*
Z	4.	1.0	9.									2.3	4.8
Z	.3	.2	.2		7.								5.
Z		.2		7.								9.	0.4
	1.6	*.	1.									2.1	3.1
182	0.	8.	4.	7.								1.9	5.2
*		8.	0.	30.	.2							2.8	80
32	5.	1.		•	2.							2.2	7.2
•	1.7	1.9	ϥ	•								5,2	6.
SSW	3.	1:1	9.	•								2,3	6.1
SW		2.6	-	•								5.1	5.8
WSW	1.1	3.4	2.6	-	.2								7.
*	3.0	6.6	10.4	2		7.						25.2	
WWW	1.9	3.3	3.7	-	2.							10.5	7.
×	1.3	2.2	1.7	9.								5.8	6.
NNN	8.1	2.8	1.5	•	7.							6.9	5.9
VARBL	ja .												
CALM	X	X	X	X	X	X	X	\bigvee	\bigvee	X	\bigvee	12.0	
				18									

NOURS (L.S.T.)

NON

SURFACE WINDS

Ē

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

	YEARS
(FROM HOURLY OBSERVATIONS)	73-77
(FROM HOI	ALAMEDA, CALIFORNIA
	AL AMEDA,

	1
100	50-3
	17.0
	1000
	CONT.
	100
	1000
	BUILDING VIDE
100	
	0.5-
	P. C. T.
	17 10 10 10
1000	
3 3	
100	100
100	
	127
	100
	200
4.11	Section 1

ALL WEATHER

0.

0

0

0

0

0

MEAN WIND SPEED	4.8	0.9	5.0	1.0	3.4	5.4	5.3	7.7	7.2	11.0	5.0	4.0	7.6	6.3	6.8	9.9			4.4
*	12.7	2.7	1.3	1.3	4.7	6.7	0.4	2.0	6.7	2.0	2.7	1.3	6.7	0.4	0.4	12.0		25.3	100.0
8 5 Al																		X	
48 - 55																		X	
41 - 47																		\bigvee	
34 - 40																		\bigvee	
28 - 33																		X	
22 - 27																		X	
17 - 21													1.					X	1.
51 . 16		.7							1.3						1.	3.3		X	9.3
7 - 10	2.7					1.3		1.3	2.0				3.3	2.0	1.3	1.3		X	16.7
:	6.1	1.3			2.7	2.0	2.0		2.0		2.7			1.3	1,3	2.7		X	25.3
1.3	3.3			1.3	2.0	2.7	1.3		1.3				2.0		۲.	4.7		X	22.7
SYED EXTS)	z	¥	¥	N.	3	ESE	*	358	89	SSW	NS	WSW	*	WWW	WW	NNN	VARBL	CALM	

30

TOTAL NUMBER OF OBSERVATIONS

150

) **:**

0

DIRNAVOCEANMET SMOS

=

04 HOURS (L.S.T.)

NON

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

23239 STATES

0

0

ALL WEATHER

The second secon		
The second secon	CONDITION	
the second linear second second		
The second secon		

MEAN WIND SPEED	4.3	4.2	3.0	4.5	3.1	6.9	8.4	12.5	4.0	3.0	8.5	6.7	6.9	10.7	8.5	7.4			4.4
*	13.3	3.3	3.3	1.3	7.3	4.7	6.7	2.7	3.3	1.3	2.7	2.0	4.7	2.0	4.0	8.0		29.3	100.0
8 Al																		X	
48 - 55																		X	
41 - 47																		\bigvee	
4 . 4																		\bigvee	
28 - 33																		X	
n · n																		X	
17 - 21							1.3	. 7			.7							X	2.7
1 · 16								. 7					1.3	1.3		2.7		X	7.3
7 . 10	2.7					2.7	1.3	1.3	2.0		. 7		1.		1.3	1.3		X	15.3
;	3.3	1.3		.,		1.3	4.0						2.0		2.0	2.7		X	21.3
1:3	7.3	1.3	2.7	1.	0.9				4.			1.	1.	1.		1.3		X	26.0
SPEED (KNTS) DIR.	z	Z	Z	Z		283	*	3	•	SSW	*S	MSM	*	WWW	MM	MMM	VARBL	CALM	

0880

TOTAL NUMBER OF OBSERVATIONS

07 HOURS (1.5.T.)

NON NON

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)	73-77	YEARS
	ALAMEDA, CALIFORNIA	STATION NAME
ASHEVILLE, NC	ALAMEDA	

ALL WEATHER

CONDITION

0

0

(4)

0

0

SURFACE WINDS

SPEED (KNTS) PIR.	::	•••	7 - 10	11 . 16	17 . 21	22 · 27	28 . 33	3. 5	41.4	48 - 55	% %		*
z	3.3	2.0	1.3									_	7.3
Z.	2.7	1.3											4.7
¥	2.7												3,3
ENE	1.3												2.0
3	4.7	2.7											7.3
ESE	2.7	4:1	1.3										8.7
*	1.3	4.4	2.0	3.3									12.0
SSE					.7								2.0
\$	1.3		1.3										4.0
SSW													
SW		1.3											1,3
WSW		1.3											2.0
*		1.3	2.0										4.0
WNW													1.3
NN	2.0		۲.										3,3
NNN	3.3	1.3	2.7	2.0	.7							1	10.0
VARBL													
CALM	\bigvee	X	X	\bigvee	2	26.7							
	26.0	7.46	13.3	7.3	2.0							10	100.0

0.9

100.0

3.3

7.3

24.7

32.0

26.7

NOURS (L.S.T.)

NON

200

WINDS

SURFACE

5702

34 - 40

28 - 33

22 - 27

17 - 21

11 . 16

7 . 10

- 3

SE SE

2.0

2.7

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDAS CALIFORNIA

YEARS

CONDITION

10.0 10.0 6.6 5.6 MEAN WIND SPEED 3.3 8.7 12.0 4.0 4.0 4.0 5.3 6. 128 48 - 55 41 . 47

1.3

006.11.1

2.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 0

0

0

0

- 3 3

WWW WWW

SW WSW

2.7

NW NAW

CALM

2.

110.2

2.7

.

1.3

X X X - X 3 5 5

5.3

2.0

1.3

NW NW

VARBL CALM

1.33

6.4.9

WSW WSW

*

SSW

22.7

37.3

19.3

5.0 5.6

10.0

5702 SURFACE WINDS JAN 78

8.9

1.3

MEAN WIND SPEED

12

. 55 4

41 - 47

SURFACE WINDS

3

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

ALL WEATHER

73-77

ALAMEDA, CALIFORNIA

23239 STATION

0

0

0

VEARS

13

NON

CONDITION

34 - 40	
28 - 33	
22 . 27	
17 . 21	
	F

11 . 16

7 . 10

4.6

- 3

KNTS) DIR.

TOTAL NUMBER OF OBSERVATIONS

150

9.9

100.0

4.

6.6 6.9 0

SE SE

1

0

DIRNAVOCEANMET SMOS

NON

9

WINDS SURFACE

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77

ALAMEDA, CALIFORNIA

23239

ALL WEATHER

16 HOURS (L.S.T.)

١				
١				
I				
۱		5		
ı	ŀ	Ē		
ı	ŀ	į		
١	ľ			

	1	_		_												
*	5.3	2.0	2.0		2.0	2.7	5.3	2.0	4.7	0.0	22.0	21.3	12.7	0.8	0.4	100.0
8 N															\bigvee	
48 . 55															\bigvee	
41.0															\bigvee	
34 . 26															\bigvee	
28 - 33															\bigvee	
2 · 20								1.							\bigvee	.7
17 . 21							1.					۲.		٠,	X	3.3
9 .	1.				1.		۲.				4.1	3.3	2.0	1.	\bigvee	13,3

2.7

TOTAL NUMBER OF OBSERVATIONS

150

7.4

7.5

0

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

7 . 10

4.6

--

STED RATS

1.3

0

Z Z Z Z - Z Z - Z -

WSW WSW

*

SSW

33.3

35.3

10.0

7.3

NW NW

VARBL

CALM

150

0

0

NON

NOURS (L.S.T.)

Ē

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

23239

YEARS

CONDITION

34 - 40

28 - 33

22 - 27

17 - 21

11 - 16

7 - 10

4.6

1.3

SPEED (KNTS) DIR.

MEAN WIND SPEED

2.0 5.4 13.3 2.0 100.0 19.3

TOTAL NUMBER OF OBSERVATIONS

3.3

10.0

22.7

24.7

20.0

DIRNAVOCEANMET SMOS

000

0

0

0

z z z z

. 7

- 2 - 3 -

SW WSW

WW K

NW NW

CALM

3.3

20.4

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

10.7

MEAN WIND SPEED

28 - 33

22 - 27

17 - 21

1 - 16

7.10

*:

-:

SE SE

2.0

2.0

.

2.0

2.7

2.7

3.3 12.0 880

0

200

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

ALAMEDA, CALIFORNIA

73-77

ALL WEATHER

22 HOURS (L.S.T.)

NON

2.2.7.2

TOTAL NUMBER OF OBSERVATIONS

150

5.0

100.0

2.0

8.7

18.0

24.7

30.7

15.3

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

0

0 0

0

0

Z Z Z Z - 3 3 3 5

WSW WSW

*

NAW NAW VARBL

2.0

2.7

.0.4

4:7

CALM

MEAN WIND SPEED

8

48 - 55

41 - 47

5702 SURFACE WINDS JAN 78

1.8

3.0

6.9 4.5 8 8.9 4.5 8

6.6

7 .

40

-

-

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77

ALL WEATHER

ALL HOURS (LS.T.) MONTH

>0N

CONDITION

34 . 46				
28 - 33				
12.11				
5	2.	7		-

11 . 16

7 - 10

4.0

1.3

TOTAL NUMBER OF OBSERVATIONS

1200

5.4

100.0

3.

2.6

9.3

20.8

28.2

2.

9:1

0

16.2

10.3

1.00-

2.2

0

1

DIRNAVOCEANMET

0 40

0

0

0 0

23239

ALAMEDA, CALIFORNIA

0 0 0

X X X ~ X ~ X ×

WSW WSW

SSW

WHW WWW

VARBL

CALA

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

200

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77 WEATHER CLASS

ALL

ALAMEDA, CALIFORNIA

23239

NOURS (L.S.T.)

DEC

CONDITION

-:3

SPEED (KNTS) DIR.

0

0

0

MEAN WIND SPEED	0.9	3.0	3.7	3.0	3.2	5.5	5,5	14.0	5.5	4.0	12.2	13.0		4.0	3.9	6.3		3.8
*	12.9	1.3	1.9	1.3	7.1	6.5	9.8	9.	5.2	1.3	3.2	9.	1.3	1.3	7.7	7.7	31.6	100.0
%																	X	
8 . 33																	X	
4.4																	X	
4 . 4																	X	
28 - 33																	X	
22 · 22	0.										9.						X	1.3
17.21																9.	X	9.
91 - 11	1.3					9.	1.3	9.	•		•	9.				•	X	6.9
2	1.3					9.	1.3		9.		1.3			9.		1.9		8.4

1.9

2 2 2 2

0

SSW NSW

5.8

WNW NWW NWW NAWW

25.2

26.5

0

CALM

SURFACE WINDS JAN 78

MEAN WIND SPEED NOURS (L.S.T.) DEC *

0

0

0

0

0

WINDS

SURFACE

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

16.1

25.2

CALM

SSW WSW WSW

0

*

Z Z Z Z Z Z Z Z Z Z

TOTAL NUMBER OF OBSERVATIONS

===

155

0

0

0

2:1

5.0

0

30.3

100.0

12.0 10.8.00 1.9 2.6 4.5 8.4 3.2 1.9 8 . 55 4 41 - 47 34 - 40 28 - 33 73-77 ALL WEATHER 22 - 27 0 ... 17 - 21 000 11 - 16 2.6 9. 7.10 ALAMEDA, CALIFORNIA 4.6 1.3 NW NW NWW

0

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

200

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

07 HOURS (L.S.T.) DEC 73-77 ALL WEATHER ALAMEDA, CALIFORNIA

COMBITION

0

0

0

0

0

0

MEAN WIND SPEED	6.2	**	10.0	7.0	4.4	3.4	6.7	5.3	4.9	4.6	10.0	8.0	11.5	0.0	3.8	1.1			4.3
*	11.6	3.9	9.	1.9	8.4	7.1	11.6	5.2	3.2	3.2	9.	1.3	1.3	2.6	5.2	8.4		23.9	100.0
% Al																		M	
48 - 55																		X	
41.4																		\bigvee	
34 - 40																		X	
28 - 33		Ť																X	
22 · 27																		X	
17 - 21	9.						•									9.		X	1.9
51 . 16	1.3			•	•		•	1.3	1.3			9.	0.	•		9.		X	4.8
7 . 10	2.6	9.	•	•	9.		3.2			9.	9.		0.		•	3.2		X	14.2
:	3.2	1.3			3.2	3.9	4.3	•	•	0.				1.3	1.9	2.6		X	23.9
:	3.9	1.9		•	3.9	3.5	2.6	3.2	1:3	1.9		9.		5.	2.6	1.3		X	27.7
SPEED (RNTS) DIR.	z	Z	Z	Z	•	283	*	*	*	SSW	NS.	ASA	>	WWW	¥	NN	VARBL	CALM	

155

TOTAL NUMBER OF OBSERVATIONS

=

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73-77 ALL WEATHER ALAMEDA, CALIFORNIA

10 HOURS (L.S.T.)

DEC

MEAN WIND SPEED	9.9	5.7		4.0	3.3	6.8	6.9	1.4	3.1		2.5	5.2	8.0		5.9	9.9			4.8
*	10.3	1.9		9.	4.5	6.3	4.6	0.11	8.4		1.3	3.9	4.5	1.3	7.7	13.5		14.8	100.0
8																		X	
8 . 35																		X	
41.0																		X	
34 . 46																		X	
28 - 33																		X	
22.22																		X	
17 - 21	1.3						•									9.		X	2.0
5	9.					1.3	1:9					9.	1.3		1.3	9.		X	7.7
7 . 10	1.3	9.				1.3	1.9	1.3	9.				1.3			5.8		X	14.2
:	3.2	9.		0.	1.9	3.2	2.6	3.9	1.9			1.3	1.3	1.3	5.8	2.6		X	30.3
<u>:</u> :	3.9	9.			5.6	9.	2.6	5.8	5.8		1.3	1.9	9.		9.	3.9		$\langle \rangle$	30.3
SKNTS) PIR.	z	NNE	¥	K	3	ESE	*	388	8	SSW	SW.	WSW	*	WHW	NW	NNW	VARBL	CALM	

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER ALAMEDA, CALIFORNIA

13 HOURS (L.S.T.)

DEC

1.9 1.9 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	MEAN WIND	6.5 6	1.3 7.5	1.3 6.0	01 9.	9.	1,3 6,5	5.8 10.	5 2 5	9.7 4.7	5.8 3.	3.9 4.8	3.2 2.8	7.1 8.1	3.9 6.8	18.1 7.4	19.4 8.0	6.9	
1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	48 - 55 Y S																	X	
1.9 1.9 1.9 2.6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .																		X	
1.9 1.9 1.9 2.6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .								9.											
1.1	17 - 21	•							9.			0		0.					
		1.9	9.		•	9.	90	2		1.3	9.	•		1.9 1.	1.9	7.1 2	7.1 3	X	0 34
	• •	-	9.	1.3			•	1.3	-		3.9 1.3	3.2	3.2	-	1.9	-	•	X	

0

9880

DIRNAVOCEANMET SMOS

155

TOTAL NUMBER OF OBSERVATIONS

5702 SURFACE WINDS JAN 78

SURFACE WINDS

Ē

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

ALAMEDA, CALIFORNIA

23239

0

0

0

0

16 HOURS (L.S.T.)

DEC

1		
1		
1		
1		
1		
1		
1		
١		
J		
1		
1	_	
1	5	
1	=	
١	9	
1	품	
1	2	
1		
1		
1		
1		
ı		
1		

MEAN WIND SPEED	10.1	11.0		6.5	7.3		9.2	1 6.7	4.1	3.3	2.3	3.3	7.0	6.3	9.9	9.9			6.2
×	4.5	9.	9.	1.3	1.9	9.	6.5	5.8	7,1	1.9	1.9	2.6	16.1	11.6	18.7	11.6		9.5	100.0
8 Al																		\bigvee	
48 - 55																		X	
41 - 47																		\bigvee	
34 . 46																		\bigvee	
28 - 33																		\bigvee	
12 - 17							9.											\bigvee	9.
17 - 21																		X	
1 . 16	1.9	9.					2.6	1.3	9.				1.9	1.3	1.9	1.3		X	13.5
7 . 10	9.		9.	9.	1.3			9.	9.	9.			6.5	3.9	5.8	2.6		X	23.9
•	1.9			9.	9.	9.	1.9	2.6	2.6			1.3	5.8	6.4	9.0	6.5		X	38.1
:							1.3	1.3	3.6	1.3	1.9	1.3	1.9	1.9	1.9	1.3		X	17.4
18 H	z	Z	7	Z		388	35	35	s	SW	*	/SW	*	×	**	M	181	ALM	

TOTAL NUMBER OF OBSERVATIONS

155

0

DIRNAVOCEANMET SMOS

9

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

3.3

MEAN WIND SPEED

34 - 40

28 - 33

22 - 27

17 - 21

91 - 17

7 - 10

...

-:

SENT DE CENTRO

0

0

0

155

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

ALAMEDA, CALIFORNIA

23239 states

0

0

73-77 ALL WEATHER

YEARS

19 HOURS (L.S.T.)

DEC

3.9 1.9 9.2 8.2 0.0 26.5 16.8 100.0 128 48 - 55 41 - 47

1.3

Z Z Z Z - Z Z Z -

3

35W WSW

*

1.3

6.000

1.3

NAW NAW

CALM

TOTAL NUMBER OF OBSERVATIONS

9.0

0.6

25.8

28.4

DIRNAVOCEANMET SMOS

5702	SURFA	ACE	W	/IN	DS	J	14	1	78				
ſ		न	0	0	0	8	3	0	8	3	0	m	ſ

	8.
	100
	15
	1
AL INFI	18
1000	100
	7
- 200	
	857
	27
	100
	G
0	
-	
9	10
ō	
•	
	160
170	
	1
	100
	10
	1
	18.
	116

22 HOURS (L.S.T.)

DEC

0145

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA

0

0

0

0

0

ALL WEATHER

	MEAN WIND SPEED	8.		•1	3.		3.			1.	•91			•	. 4	• •	5.			*
	×	9.0	2.6	9.	1.3	8.4	6.5	7.7	3.9	2.6	9.	1.9		1.3	2.6	7.1	12.3		31.6	100.0
	N 1																		\bigvee	
1	48 - 55																		X	
	41.4																		\bigvee	
	34 - 40																		\bigvee	
	28 - 33																		X	
	22 - 22																		X	
	17 - 21	1.3						1.3											X	2.6
	11 - 16	2.6	9.				•	1.9	9.	9.	9.						9.		X	8.4
	7 . 10							1.3		9.				9.	9.	5.6	1.9		X	7.7
	:	2.6	1.3		9.	1.9		2		9.		9.			1.3	4.5	5.8		X	23.2
		2.6	9.	9.	9.	6.9	5.8	9.	2.6	9.		1.3		9.	9.		3.9		X	26.5
	SPEED (KNTS) DIR.	z	NNE	an a		1	ESE	38	SSE	8	SSW	SW	WSW	*	WWW	WN	NNN	VARBL	CALM	
10.9		1000	235	Charles .	1000	1000	CS	501525	100	10/200	OKY.	Chica	1000	(Lines)	4 (1)	111123	10000	1000		No.

-

DIRNAVOCEANMET SMOS

400

155

TOTAL NUMBER OF OBSERVATIONS

5702 SURFACE WINDS JAN 78

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

23239

0

0

0

(FROM HOURLY OBSERVATIONS) 73-77 ALL WEATHER ALAMEDAS CALIFORNIA

ALL HOURS (L.S.T.)

DEC

MEAN WIND SPEED	6.8	6.4	5.4	5.3	3.6	4.6	7.9	5.9	4.7	5.5	6.3	4.6	7.1	5.5	6.1	4.9			4.7
×	6.3	1.9	1.0	1.2	9.4	6.4	7.6	5.1	5.4	2.0	6.1	1.99	5.2	1.4	6.6	12.5		21.5	100.0
% Al																		X	
48 . 55																		X	
4.4																		X	
34 . 46																		X	
28 - 33																		X	
22 . 22	•						•2				7.							X	.3
17 - 21	9.							-2							-			X	1.0
3	1.3	.2		7:	7	*	1.8	1.		.2	.2	.2	1.0	7.	6.	1.1		X	9.0
7 . 10	1.5	.2	3.	3.		*	1.5		•				1.6	1.2	2.4	3.3		X	14.9
;	2.9		.2		1.6	1.9	2.3	1.5	1:1		.2	0.	1:1	1.6	5.0	4.9		X	27.7
:	2.9	0	60	3	2.6	2.2	1.5	2.3	2.6	0:	1.0	1:1	1.0	1.0	1.5	2.1		X	25.1
SPEED (KNTS) DIR.	2	Z	Z	Z	-	ESE	25	325		ASS	NS.	WSW	>	WWW	3	NNN	VARBL	CALM	

. DIRNAVOCEANMET SMOS

0

0

0

1240

TOTAL NUMBER OF OBSERVATIONS

MEAN WIND SPEED

18

. 55 4 7.9

5.1 2.0

4.0

000

-00

0 2 2

00

.2

2.0

18.2

27.4

25.7

16.0

.1

101

2.2

300000

-

25.8

14607

6.0

WINDS

SURFACE

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

ALAMEDA, CALIFORNIA STATION NAME

YEARS

WEATHER

MOUNTS (L.S.T.)

00

•

17 - 21

11 . 16

7.10

4.6

- .3

SE SE

10000

9.8

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

0

0

0

0

0

0

MSM * WW

35

SSW

•

NW NAW

CALM

WIND SPEED

*

128

5702 SURFACE WINDS JAN 78

3.4

2.2

4.4

3.1

88

WINDS SURFACE

> PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

ALAMEDA, CALIFORNIA

INSTRUMENT

73-77

ALL HOURS (L.S.T.)

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE CIG 200 TO 1400 FT W/VSBY 1/2 MI OR MORE,

11 . 16

7.10

- 3

SPEED (KNTS)

TOTAL NUMBER OF OBSERVATIONS

2325

6.6

100.0

14.0

33.0

29.3

13.6

8.6

7.3

17.9

0

6.0

20000

ASW WSW

1:3

:

2 2 2

.

.1

0

-4-

0

3.3

0

0

SOMS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 80

0

0

0

0

0

0

WWW W

NINW VARBL

CALM

NWSD, Federal Building Asheville, N. C.

THE SECOND COME AND ADDRESS OF TAXABLE LAND ASSESSMENT OF TAXABLE PARTY.

ART D

CEILING VERSUS VISIBILITY

equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to presented as follows:

- 1. Annual all years and all hours combined
- . By month all years and all hours combined
 - By month by standard 3-hour groups

station was meeting or exceeding any given set of minima may be determined from the figure at the intersection ferring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by re-Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of on pages 2 and 3 below. U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque. to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

The second and delivery of the second second

						SIV.	VISIBILITY (STATUTE MILES)	ATUTE MII	(Sa)						
\$ A 9 A	۶۰ ۸۱		4	N N	2 2 1/2	2 2	× 1 ×	% l ≥	1 2	% AI	% Al	٧ ح	≥ 5/16	% <	0 2
-{(1			~	3(_\\					$\angle \langle \langle$	(3
)	\	AND DESCRIPTION OF THE PERSON		61.0			5700		Name of))			4) 5)	92.6
				100											
		The second second							7.72						1.86
CONTRACTOR	100 Sh	Ed William V											ACCEPTED TO A		
		Laboratory of		95.4		6.96			98.3					74.74	100.0

Read ceiling values independently of visibility under column at right headed > 0.

For instance, from the table: Ceiling > 1500 feet = 92.6%.

Ceiling > 500 feet = 98.1%. EXAMPLE # 1

Read visibilities independently of ceilings on bottom line opposite > 0. From the table: Visibility > 3 miles = 95.4%.
Visibility > 2 miles = 96.9%.
Visibility > 1 mile = 98.3%. EXAMPLE # 2

To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling > 1500 feet with visibility > 3 miles = 91.0%. EXAMPLE # 3

ADDITIONAL EXAMPLES

EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet</p> and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value observations meeting the lower set of limits, but not meeting the higher set of limits. in the table for the second set of limits. The difference will be the percentage of

The value 91.0 read from the table at the intersection of > 1500 feet with > 3 miles, subtracted from 97.4 read from the table at the intersection of > 500 feet with > 1 mile is equal to 6.45. Thus; 6.4 percent of the observations meet the criteria: "ceiling > 500 feet with visibility > 1 mile, but < 3 miles; or ceiling > 500 feet, but < 1500 feet with visibility > 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

PART D

A THE PART OF THE PROPERTY OF TAXABLE AND TAXABLE AND

SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

- 1. By month and annual all hours and all years combined.
- 2. By month by standard 3-hour groups.

Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This available, were punched for Air Force stations beginning in 1946, but were not available for summary will, of course, be limited to period of available data. NOTE: # 1:

Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below: NOTE: # 2:

ENTHS	01	m. 4	N/	, w o	\ ²
EII					
					red)
					obscured)
ળા					or
OKTA	01	a m) 	101	-ω

1.45年的新年

		760		
-		- 1	-	-
	-			
20				_

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

0 Al

X N

٨I

4

2 2%

۸I

A

1

Al

2

0

VIV 12000

38

38

AI AI

VISIBILITY (STATUTE MILES)

3000

AIAI

2000

88

AIAI

88

88

88

88

80

88

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM





T

YEARS	PERCENTAGE FREQUENCY OF OCCURRENCE	(FROM HOURLY OBSERVATIONS)
-	YOF	BSERV
7	DOENC	RLY OI
-	E FREC	POP
	NTAG	FROM
	FRCE	

CEILING VERSUS VISIBILITY

CEILING																
	2	AI	87	4 4	E A1	≥ 2%	2 2	۲۱ کا ۱۳	×1 ×	- AI	% Al	* 11	% Al	91/5 ₹	% AI	0 11
NO CEILING	30.3	47.7	52.3			60.0	•00	.09	60	60.7	60	60.7	00	60.	60.7	61.
18000 2 16000	30.3		54.8		• •	2.	63.	63.	63.	63.2	63.		63.2	63.	3.	63.
Y 14000	31.0	•	55.5	E. 19	62.6	63.2	00	33	9	63.9				00	63.9	64.
0001 YI YI 0006 YI YI	32.3	200	36.8	•		64.5	65.	65.	65.		65.	65.2	65.2	65.		65.
N 1000	32.3	52.3				65.8	66.	66.	66.	66.5	66.				Salar L.	67.
9000 AI AI	32.9	33.0	00			60	69.	69.	69.					69.	110	70.
4500 4000	34.6	55.5	-		-	71.	72.	72.	7	2.	72.	26		72.		72.
≥ 3500 ≥ 3000	35.5	57.4			200	73.	74.	2.5	74.		100 E	::	74.2	76.	.,,	74.
≥ 2500 ≥ 2000	36.8	61.3				78.	79.	79.	79.		79.			79.	79.	
1800 1500	38.7	2.0	72.3	80.0	83.9	81.9 85.2	83.2	83	83	83.2 86.5	83		83.2		83.2	8 60
Y 1200	38.7	65.8		2.5	-	8 5.	86.	9 8	86.		88.			86.	Date SA	50
> 900 > 800	38.7	64.0	76.8			88.	89.	99.	99.	.:	89.	6 -	5-	99.	99.	95
Y 70 800		69.0	77.4		. 6	90.	92.	92.	92.	2.	92.	200	22	92.		92.
VIVI 50	39.4	59.7	78.1		91.6	92.	94.	9.6	9.4.		94.	*:		94.	94.	95.
Y 200	D C	60.7	78.1			92.	95.	95.	95.		95.	95.5		95.	95.	
80	39.4	69.7	78.1	89.0	91.6	92.	-56	99.	•	95.5	95.				-	:

NAVWEASERVCOM

CEILING VERSUS VISIBILITY

0 Al THIS PAGE IS BEST QUALITY PRACTICABLE N N 2 5/16 FROM COPY FURNISHED TO DUC 2 * × N _ AI VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) ¥1 × 7 1% 7 2 2% N Al Al 4 4 2 Al NO CEILING > 20000 (FEET) VI VI 00091 16000 2500 80 Y 1 4000 7000 4500 3300 1500 1200 88 88 88 88 900 ALAI AI AI ALAI ALAI ALAI AI AI ALAI

NAVWEASERVCOM

TOTAL NUMBER OF OBSERVATIONS

0

















.0

PERCENTAGE FREQUENCY OF OCCURRENCE

0

0

0

0

CEILING VERSUS VISIBILITY JAN 68 5703

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MILES) MILES) MILES	60.7 60.7 60.7 60.7 6	65.2 65.2 65.2 65.2 65.2 65.	65.8 65.8 65.8 65.8 65.8 66.8 6	0 69.0 69.0 69.0 69.0 69.0 69.1 70.3	70.3 70.3 70.3 70.3 70.3 71.0 7	71.6 71.6 71.6 71.6 71.6 72.3	.3 72.3 72.3 72.3 72.3 72.9 7	9 72.9 72.9	.9 75.9 75.9 75.9 76.1	70.4 79.4 79.4 79.4 79.4 80.0 8	82.6 82.6 82.6 82.6 82.6 83.2 8	83.9 83.9 83.9 83.9 83.	89.7 89.7 89.7 89.7 89.7 90.3 9	91.0 91.0 91.0 91.0 91.0 99.3 92.3 92.3 92.3 92.3	93.6 93.6 93.6 93.6 93.6 94.2 9	2 94.2 94.2 94.2 94.	94.2 94.2 94.2 94.2 9	94.8 94.8 94.8 94.8 95.9	5 95.3 95.3 95.3 95.3 95.9 96.1 9	95.5 95.3 95.5 95.	95.5 96.1 96.8 97.4 97.4
VISIBILITY (STATUTE MILES)	9	64.5	63.2 65.2 65.	60	69.7 70.3	0 12 0	0 71.6 72.3	0.0	.3 74.8 75.5	10.	4 81.9 82.6	80.7 83.2 83.9	85.8 89.0 89.7	84.5 90.3 91.0	89.0 92.9 93.6	2 89.0 92.9 93.6 93	89.0 92.9 94.2	89.0 93.6 94.8	89.0 94.2 95.5	89.0 94.2 95.5	89.0 94.2 95.
\$ A1	8 49.2 51.0 54.	7 47.1 54.2 58	34.8 9	4 47.7 54.8 59.	-	0.00		52.3 61.3 65.	9 94.0 63.9 68	67.7	7 71.0 7	0.0	8 66.5 77.4 8	7 68.4 70	9.0 80	0000	0.0	000.70	9.0 80.7 8		0.0
CEILING (FEET) 2 10 2 6	90	Y 18000 25.0 30.		Y 12000 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 10000 2 6 5 6 1.	100 884030	≥ 7000 ≥	Y 6000 27.7	2 4500 28.4 46.	3500 29.0 4	3000 29.7 52	Y 2500 29.7 52.	1800 31.6	1200 31.6	≥ 1000 ≥	000 AIAI	25 700 31.0			1 300 31 6 50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80 00

0

0

0

0

TOTAL NUMBER OF OBSERVATIONS

0

NAVWEASERVCOM

HOURS 4 ETS. T.)

PERCENTAGE FREQUENCY OF OCCURRENCE

0

* ٨I

CEILING VERSUS VISIBILITY

TOTAL NUMBER OF OBSERVATIONS

2 5/16 96. 89.7 * * VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) ¥1 × 71 12 2000 1 2% Al AI 1 ٥ ٨١ ******* VI VI 00081 00081 1500 80 (FEET) Y 1 Y 2000 9000 4500 4000 3000 2500 1000 88 200 9000 88 88 88

NAVWEASERVCOM

ALAMEDA, CALIEGRAL

0 0

0

0

0

0

0

AI AI

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0 0 0

0

0

		20	00	00	20.00	æ F	*	2 .	-3	0.5	9.0		*	3.	00	00	00
	Al	63	7.	25	25	76	79	8 8	88	80	92	96	00	20	001	000	89
		NC	0	00	-	@ P	4 1	9 0		04	0.0	N 00	33	4-	00	00	00
	VI 74	63	7.	20	27	76	79	28		88		96	97	94	000	000	20
		NO		00	80 KG	8 P	4 6	90	74	04		N C	44	*-	60	60	33
	5/16	6-	1:			68	9.	26	- 00		35	5.	7.	97.		000	00
	Al	97	7	rr		7	7	00 00	00 00	80	00	6	6	6	20	10	20
	1/2	20	0.	0.0		. 7	4.	90		0.4	. 9	. 5		**	0.0	00	00
	Al	63	22	25	25	787	79	8 8	88		92	95	60	98	00	00	88
		NO	00	00	-	00 F	4 10	00	- 4	0.0	0.0	N 80	44	3-	00	00	00
	*	63	71,	12	50	76	92	2 8	8 3		26	96	97	99	00	000	80
		NO	00	00	10 IO	8	4 10	0 0				50	3 4	*	00	100	00
	*	3.	1		5	98	9.	20	- 8	6-	35	5.	97.	7.8	00	00	00
	Al	20	~	2.	"	,	1- 80	8	20 00	000		00	00	00	22	10	22
	-	2.0	00	00	20.00	8.	* m			0.4		2.8			00	00	
S	AI	63	7	25	7	76	7 8 1	82	8 8		92	95	9	97	00	00	00
MILE	,	NO	00	00		8	410	00	-4	04	0.0	50	44	* -	1-1	77	7-7
15	7 7	69	25	25	55	76	79		8 3		26	96	16	16	96	96	9 8
VISIBILITY (STATUTE MILES)		NO	00	00	50 50	@ P	4 (1)	00	- 4	04		20 00		3 4			
1	1%				20.00		9.	20		6 -	26						
SIBIL	Al	91	7		22	,	7	60 %	00 00			66	00	00	00	00	00
>	7	2.5	. •	00		8	4.6	•	1	0		5.8	H			ff	
	Al	63	77	2.	75.	76	79	822		600	9	00	97	97	98	98	86
	4	0.79	9	m m	00			0.0	W.L	40	9	250		7.7		@ @	00
	≥ 2%	75	70	25	42	78	280				92	96	96	96	96	96	96
		91	-	-	~~	50 00	44	-	2 10		00	00	NN	20	22	22	20
	N AI	NO	00			5	-0	0-	5	-0		25	3 3	*		*	* *
		00	9	01			2.	@ @	~ ~	000	40	66	99	0.0	6 9	99	6 9
	•			-	~		2.				8.6	0					-3
	Al	0.0		0	2				00 00	80 00		00	00	00	00	00	00
	5	24	*	41	20	10.00	24	-	25	7.		0.			3		
	Al	40	50	200		49	96	200	7 5	200	78	80	8 1	818	8 2	818	eo eo
		N-4		40	00		2-		0 0			-	00	00	00	00	00
	AI		8 4	00 0		~	54.	57.			65.	7.8	0.0	00	00	00	
		*	44		00	500				100000000000000000000000000000000000000		Delica and	The state of the				
	2										33.6		3.				3.
	Al	200	20	200	~~	~	9 6	-	w w	20 10	3				m m	20	3
		9 .	00	00		00						00	00	00	00		
CEILING	FEET	2000	16000	14000	900	7000	98	4500	3300	2000	1500	1200	88	58	8 6	38	80
ü	=	NO CEILING	AIAI	MAI	ALAI	ALA	ALAI	AIAI	AIAI	ALAI	ALAI	AIAI	AIAI	ALAI	AIAI	ALAI	ALAI

CEILING VERSUS VISIBILITY

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

٥ ٨ 89.0 VI Z 89.0 90.3 2 5/16 89.0 * % Al ۸I VISIBILITY (STATUTE MILES) 89.0 08.7 96.8 V 1% ۲ ۱۸ 2 2% 89.0 89.0 90.3 ۳ ۸۱ Al N * 3500 2000 1500 1200 88 88 88 88 80 450 450 400 400 99

AIAI

AIAI

AIAI

AIAI

ALAI

AIAI

AI AI

AI AI

AI AI

NAVWEASERVCOM

TOTAL NUMBER OF OBSERVATIONS

ō
=
ATIO
~
2
OBSERV
0
ö
-
-
NUMBER
3
3
_
-

			STATION NA	PERCE (PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)	FREQUE	UENC LY OB	ACY OF OCCUR! OBSERVATIONS)	OCCUR	RENCE	: 111				HOURS (ES. T.)	
CEILING (FEET)	2 ^	*	5 1	1	N A1	X 2%	VISI VISI	VISIBILITY (STA	(STATUTE MILES)	1 A	AI AI	*	S.	8/8	× Al	٨١
NO CEILING	35.5	5		6						67.1						
1 VI VI 00061 VI 00061	35.5				50.00	20.0	100	2.5	0.0	70.3	0.0	0.0	0.0	70.3	70	9.5
Y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35.5				70.3	70.3	10	0.0	0.0	0.0	100	70.3	100	70.0	70.3	70.0
VI VI 000 000 000 000 000	36.1	7.7.7	73.6	74.8	75.5	75.5	75.5	75.5	75.5	78.9	75.5	75.5	75.9	75.9	75.5	75.5
VI VI 000 7000	37.4	69.7	75.5	76.8	17.4	77.4	77.0	17.	17.	77.4	17.	12:	77.4	77.4	13.	73.5
The second	38.1		78.1	79.4	00	00	00	00	00	00	80.0	80.0	90.0	80.0	80.0	80.0
VI VI 450	2			82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	84.3	83	83.2	83.2
1 55. 7. 6	38.7	76.8	95.6	0. C. C.	84.5	84.5	20 a	84.8	84.5	2.4.0	84.5	84.7	84.5	84.8	84.5	84.5
Sevie Line	90	A CONTRACTOR	83.9	65.2	85.8	85.00	80.00	20.00	80 80 80 80 80 40	80.00	80.00	8000	0.00	8.00	85.0	85.6
V1 V1 08 E 08 E	0,0	100	86.5	87.7	88.4	9.00	800	88.4	98.4	4.88	90.3	88.4	90.3	88.4	88.4	90.3
V 1 V 100 100	41.3	84.5		91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
9 8 AI AI	41.3	THE STATE OF THE S	93.6	95.5	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
VIVI 88	41.3	100	94.2	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
71 YI	41.3	87.7	;	96.1	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.1
8 8 N N	41.3	87.7	::	96.1	98.1	98.7	98.7	99.4	4.66	99.4	99.4	93.4	99.4	99.4	99.4	99.4
80	41.3	87.7	94.2	96.1	98.1	98.7	98.7	99.4	4.66	99.4	99.4	99.4	99.4	99.4	99.4	99.4
100000000000000000000000000000000000000	The second		1		2							100	The second second		The second second	

2
ō
E
≥
SER
OBSERVATION
-
ö
2
UMBER
7
=
o ₹
5

					(FROM	HOURLY		SERV	OBSERVATIONS	12)						ноивяте	
SNG							SIA	SIBILITY (S	VISIBILITY (STATUTE MILES)	ILES)							
	0 A	9	8 AI	7 A	E AI	× 2 ×	7	Y 72	VI Ž	ŽĮ.	X AI	AI AI	X AI	≥ 5/16	۸۱	*	\
SILING 3000	29.5	2.64	54.9	39.6	62.0	62.8	63.6	63	63	69	1 63	69	8 63.	69	0 1	91	01
000		51.3	57.7	63.0	65.7	90		• • •	5	6	50	100	1 67		104	0	90
000		51.8	58.3	63.6	96.2	67.3	68.2			80	80		. O O	80	mo		.01
900	31.2	54:4	61.3	2.0	69.8	70.	7.1.0				27.	0	72.	72	01	22.5	+
88		00.00	62.9	68.0	71.5	72.7	73.0	~		7.3	L 0	E .	7 7 3	10 K	800	24.0	
900		57.6	64.7	70.8		74.8	75.	55		r			76	27	00	76.1	
98		2.00	67.3	73.6	76.4	77.6	200	6.5	200	L	7.8	0 0	9 2	8 2		0.0	-
900		62.3	69.4	75.9		79.9	80.9		81.	- co c	8 8	- C		8 8		70	00
900		65.0	72.5	79.2	82.1	83.4	84.5		84.		98	4 60	900	400	80 0	40	
800	36.4	69.2	77.3	83.1	86.1	-0		8 0				988	98	880	00		
300	36.7	70.9	78.4	85.7	98.8		93.	00			9 92.	92.	92.	93	0.0		00
88	36.7	7.2	80.2	87.6	000	92.9	000	000	200	00	38	**	9 0	400		95.7	000
88	36.9	72.7	81.0	88.7	92.3	96.0	. 0	95	9	00	9	9		96	- 6	9000	-0
9 8	36.9	72.4	81.0	89.2	93.1	***	96.1	90.	9.5	90	97.	96	7 97.	9 6 6	0.0	98.0	00
300	36.9	72.8	81.1	89.2	93.1	94.9	96.7	97.	97.	400	1 97.	99	99	99 97	00	98.1	00
90°	36.9	72.	81.1	89.2	93.1	94.9	96.7	97.	97.	97	7 97.	96 6	98	98	10 to	W 60	0 9
The Party of the P												Commence of the Commence of th	200000000000000000000000000000000000000			- CO 100	ļ

NAVWEASERVCOM

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

5703

CEILING VERSUS VISIBILITY JAN 68

CEILING							CONTRACTOR OF THE PARTY OF THE	The second secon	The second secon	The second secon	The second secon		Control of the last of the las	The second secon		The second secon
(FEET)	2	٥ ٨	SO AI	4	8 Al	Y 2%	7	¥1 Y1	VI 74	- -	% Al	* 1	× AI	≥ 5/16	% ~	0 =
	-	-	1			3	8	56.0	4.				\$6.0		.96	56.
¥ 20000	34.8		F	61.1	43.1	62.1	4	6		43.1		63.1		63.1	63.	
	35.5		63.1	63.1	63.1	3	63.1	63.1	63.1	63.1	63.1	63.1	63.1		63.1	63.
≥ 16000	35.5		Ŧ	63.1	63.1	63.1		63.1			63.1		63.1	-		63.
≥ 14000	35.5	61.7	63.1	63.1	63.1		63.1	63.1	69.1	63.1		63.1	•	63.1	63.1	63.
		F	64.5	64.9	64.5	64.5		64.5		64.5		64.		64.5	64.5	66.
			65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3		65.	65.3	65.3	65.3	65.
0006 A		Ŧ	66.0	66.0	66.0	66.0		66.0		66.0	9	66.	9	66.0	66.0	66.
2000	36.9	200	66.7	67.4	67.4	67.4	-		67.4	67.4		9		67.4	67.4	67.
2 7000		69.5	70.9	71.6	71.6	71.6	75.6	71.6		71.6		7		71.6	71.6	71.
0009 3	41.0		72.3	73.1	73.1		3.	73.1	73.1	73.1	73.1	73.1	73.1	73.1	. •	73.
	62.3	73.8	75.2	75.9	75.9	75.9		75.	75.9	75.9	3	1		75.9	75.9	75.
	43.3		75.9				76.6	76.	76.6	76.6		~	76.6	76.6	76.6	76.
> 4000	43.3	75.9	77.3	78.0	78.0	78.0	3	78	78.0	78.0		-		8	78.	-
1	46.7	77.3	78.7	79.4	79.4	79.4	:	79.4		79.4	6	79.4	79.4	79.4	79.4	79.
3000	46.8		82.3	83.0	83.0	83.0	83.0		83.0	83.0	83.0	8	83.0	83.0	83.0	83.
≥ 2500	47.5	81.	83.0	83.7	83.7			83.7	83.7	83.7	83.7		83.7	83.7	83.7	83.
Observe of	48.9	84.		16.5			86.5	86.5	86.5	86.5		8	86.5		86.5	86.
1800		85.	86.5	87.2	7.		7.	87.2	87.2	87.2	87.2		87.2	87.2	87.2	87.
≥ 1500	50.4	87.	88.7		0	11.51	3				4	6	0	O		.06
	N CA	87.	89.4		•	90.8			0	9008	0	90.	90.8	90.8	90.8	90.
N 1000		87.	90.1	91.5					91.5	91.5	-	91.			91.	•
		87.	90.1				•	:		91.5	:	91.	-		•	91.
008 A	51.1	88.	90.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	2.	92.
		.06		3.	•	93.6	•		•		93.	93.	93.6	93.6	93.6	93.
9		92.						3	5	-	95.	95.	95.7			95.
No.	51.1		95.7			98.6	8.				98.6	86	98.6	•	98.	98.
N 400	51.1			7.	99.3		99.3	0	6		6	99.		99.3	99.	99.
	51.1		95.7						99.3	69.3	9.	66	99.3		99.3	99.
300	51.1	92.9	95.7	7.	9.	99.3	99.3	99.3	99.3	99.3	6	5	99.3	99.3	6	
8	51.1		95.7	97.9	99.3	99.3	99.3	99.3	99.3	66.3	99.3	99.3	99.3	80.3	99.3	99.
			-								The state of the s	4				

TOTAL NUMBER OF OBSERVATIONS

Ò

NAVWEASERVCOM

0

(

6

0

5703 CEILING VERSUS VISIBILITY

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

2

(FEET)

NO CEILING

0

1800 14000

0

0

Y 14000 Y 12000

2000

MAIA

7000 7000

0

ALAI

3000

ALA

2000

ALAI

1500

AI AI

1200

MIM

88

AIAI

88

ALAI

88

MIM

88

ALAI

80

	-	
	-	
	-	
- 6		
	100	
	2	
	12	
	-	
	1	

2 > 1% > 1%	YI % I	71 2 11/4	*-	۸۱	-	% Al	*	Z.	2 5/16	× AI
53.9 53.9 53.	8.9 53.9	•								
58.9 58.9 58.9	9.88.9	9	3		4				-	
58.9 58.9 58.9	6.9 6.8	0	5							58.9
58.9 52.9 88.9	9 KB 9	0	5.6							
BO B 60 B	E 09 E	-	9					. 1		60.3
61-761-761-7	K 19 K		9					X	000	61.7
4 62 4 62 4 62 4	4 62 4	3	6.9							62.4
45 45 45 45	404					. 1		. 1		62.4
62.8 63.8	8 6 9	•	9							63.8
64.4	4.5		66						42.0	65.3
0 00 0 00	0	2	3							66.0
8000	9	4	t	•		5	- •		200	68.8
72.3 72.3 72.3	.3 72.3	127	1							72.3
73-1 73-1 73-1	73.1		-			19			400	73.1
73.1 73.1	3.1 73.1	7	×	-	73.1	73.1	73.1	73.1	73.1	73.1
76-6 74-6 70-6	76.6	3	7							76.6
78.7 78.7 78.7	8.7 78.7	-	78		8					78.7
87.3 82.3 82.3	. 3 82.3	-	8		:			100	1	82.3
83.0 83.0 83.0	3.0 83.0	0	8		3					83.0
85.1 85.1 85.1	5.1 85.1	-	8		5				-	85.1
86.5 86.5 86.5	5.5 80.5	-	8		•					86.5
90.8 90.8	8 90° B	-	6		a					90.8
90.8 90.8	9.06 8.0	30	6							90.8
92.2 93.3 92.2	3.2 92.2	~	9						-0.5	92.2
92.2 93.2 92.2	5.2 02.2	-	6							92.2
1	1							1		

10

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE

0

0

				_	FROM	HOURLY	1	SERVA	OBSERVATIONS	(6						
CEILING							VIS	VISIBILITY (STATUTE	ATUTE MILES)	ES)				S.		
	0 1	9 11	2 4	7 1	E Al	Y 2%	12	¥1 Y	¥1 Y	- AI	% Al	*	Z AI	≥ 5/16	N N	0 11
NO CEILING	24.8	39.7	\$	45.4	48.2	6.84	49.7	49.7	49.7	49.7	49.7	49.7	49.7		50.4	51.1
VI VI 00081 00081	27.7			000	53.2	53.0	200	9	34.0	34.0	34.0	24.0	24.	34.0	100	20.0
V IV 14000	27.7	5			53.0	54.0	55.3	55.3	55.3		50.00	55.3	55.3	55.3		9.0
900 900 900	28.4	•	::	55.3	58.2	58.0	59.0	90	39.6	0.0 x	59.6	59.6	59.6	59.6	600	0.1.0
VIVI 7000 7000	S . C .	35	1	58.2	61.0	61.7	20	62.4	•	62.4	62.4	62.4	63.8		63.1	63.6
0006 AI AI	90.0	200	-	50.0	62.4	63.1	63.8	69.00		63.6	63.6	63.0	63.8	63.8	4.4	65.3
954 VI VI	:::	56.	1:	63.8	66.7				68.	69.1	1000000	69.1	69		70.2	70.9
3000	2		3		69.5	•	70.9	70.9	70.9		70.9	70.9	70.9		71.6	72.3
Y IY 2000	34.8	1	-						78.		1000	70.0	70.0		7.8.7	40.4
VI VI 0081 VI 0081		67.	74.5	78.0	80.9	81.6	82.3	82.3	82.		25	82.3	82.3	82.3	83.0	86.9
Y 1200	36.9		-:	81.6	85.1	85.8	6.	86.5	86.5	86.5	86.5	86.5			87.9	88.7
8 8 AI AI	36.9		78.0	81.6	85.1	86.5	87.9	87.2		87.2	87.2	87.2	87.2		87.9	88.7
VIVI 88	36.9	and Lag	78.7	82.3	86.5	88.7	88.7	89.4	88.7	88.7	89.4	89.4	88.7		90.4	90.1
VIVI 86	DOLLARS THE RESERVE		79.4	83.0	87.2	90.1	89.4	89.4	89.4	89.4	89.4	89.4	92.2	99.4	90.1	900.8
38		72.3	79.4	83.0	87.9	90.1	92.2	92.9	92.6	92.9	92.9	92.9	92.9	92.9	93.6	94.3
91 82	36.9	1	79.4	83.0	88.7		2.	93.6	93.6	95.0	95.0	95.0	95.0	95.0	95.7	97.2

5703 CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

0

CEILING VERSUS VISIBILITY

TOTAL NUMBER OF OBSERVATIONS

					(FROM	HOURLY	-	SSERVA	OBSERVATIONS						* Sunou	3
CEITING (FEET)								SIBILITY (ST	VISIBILITY (STATUTE MILES)							
	2 10	9.1	2.5	1	ا ا	> 2%	۲ ا	۲۱ ۲	۱۱ ۲	<u></u>	× Al	*	Z AI	≥ 5/16	N Z	۸ì
NO CEILING	22.7		1-17	9.24	44.7	48.2	48.9	48.9	48.0	40.7	49.7	40.4	49.7	49.7	49.7	2
0001 4	25.5	0.000		46.1	48.2	52.5	53.2	53.2	53.2	53.9	53.9	53.9	53.0	53.9	53.6	30
	20.5	The second	100	4.0	19.7	53.9	54.6	56.0	54.0	53.9	55.3	55.3	55.3	55.3	53.9	32
	27.0	- 100	10.0	100	51.0	56.0	56.7	36.0	96.7	57.3	57.3	57.3	57.5	57.3	5.7.5	20
100 MANUAL TO SECOND	28.4	J. S. S. S. S. S.	51.1	82.5	200	58.0	59.6	39.0	59.6	60.3	00.3	60.3	3	60.9	60	-
0009	29.1		51.0	53.2	55.3	39.0	000		900	00.0	000	000	33		120	33
		52.9	57.5	200	01.0	0	90		23:	67.4	9.0	27:4	85	0.4.	9.5	33
	2		101	33	200	70.2	20.00	2	0.	170	35:	17.	12.	=	2	32:
Y 2500	200	\$ 100 CESCHILLEY	70.2	71.0		70.4	80.1	000	0	000	0	0	00	0	0	
VI VI 0081 VI	33.	200		75.9	100	9 5	85.1	65.1	5		50	50.00	25	5	25	32:
2 1200 2 1000	30.2	Control of the	70.0	7.00	82.3	27	90	0.0	000	0.0	0.0	95	0	0:	2	2
8 8 AI AI	30.0	THE PARTY SALE	78.9	100	03.1	80.7	000	0	95	9.00	200		200	-:	200	-
VIVI 88	39.0	THE PROPERTY	72.7	0.0		89.4	91.5	91.5	25.0	8.26	92.2	92.2	92.2	25.2	92.2	2
VIVI 88		N. W. Control	78.7	0.0	85.1	90.8	92.0	93.0	93.0	98.0	95.7	28	500	95.7	95.7	20
1 A 1 A	30.0	The state of the s	73.7	000	1.58	90.0	6.26	28	22	95.7	96.0	96.9	9.0	200	96.2	6
8 °	30.0	100	75.7	90	95.1	90.0	6.20	2		97.2	0.0	33	2.5	56	::	
OH THE STATE OF	1 2	60				-		-	-	-		-	-	l	I	Ĭ

CEILING								VISIBILITY (STATUTE MILES)	ATUTE MILI	ES						
	2 1	AI V	S AI	AI	S AI	2 2%	7	71 71	N Z	<u>-</u>	X Al	*	Z.	≥ 5/16	N ×	٨١
NO CEILING	27.7	39.7	44.7	4.8.4	1-16	32.5	53.2	53.2	53.2	53.2	53.2	53.2	53.9	53.9	53.5	53.
V 18000	3:	\$		9		•	000				9		0	9	3	1
141	71.0			1	**	900	2 4		000	5	30	-	61.4	1		:
N 14000	31.2		30.4	51.8	58.9	010	61.7		7	61.7	1.10	61.7	62.4	62.4	62.4	62
> 12000	31.2	65.6	91.0	53.2	61.0	63.1	62.8	63.8	63.8	63.8	63.8	63.8	64.9	6.19	64.	3
N 1000	31.0	46.1	52.5	53.9	61.7	63.8	64.5	64.5	64.5	64.5		64.9	65.3	65.3	65.3	.69
	31.0	66.8	53.2	36.6	62.4	64.3	65.3	65.3	65.3	65.5	69.3	65.3	66.0	66.0	66.	99
0008 A	32.6	47.5	53.9	55.3	63.1	65.3	0.99	66.0	66.0	66.0	66.0		66.7	66.7	66.	66.
× 7000	32.6	47.5	53.9	55.3	63.1	65.3	66.0		99	66.0	66.0	66.0	66.7	66.7	66	99
0009 AI	33.3	40.2	34.6	56.0	63.8	66.0			100	66.7			67.4	67.4	67.4	67
000	34.8	51.8	51.2	39.6	67.4	69.5	70.2	70.2	70.2	70.2		70.2	70.0	70.9	70.9	70.
	36.2	53.0	61.7	63.6	72.3	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.9	75.9	75.9	75.
× 4000	4.	56.1	63.8	66.0	75.2	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.7	78.7	18	1
> 3500	200	25-23-22	64.5	67.4	76.6	78.7	70.0			70.4	79.6	70.1	80.1	80.1	80.	8
> 3000	39.0	69.	70.9	73.8	83.0	85.1	8 % . 8	85.8	85.8	8.8	85.8	85.8	86.8	86.5	86	2
> 2500		Company or	73.8	76.6	85.8	87.9	88.7	88.7	98.7	88.7	88.7	98.7	1.68	89.4	89.4	89.
G 76	41.0	66.1	77.3	80.1	89.4	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.9	92.9	92.9	92.
N 1800	41.0	66.0	78.0	9.00	90.1	92.2	92.9	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.
	41.8	69.5	78.7	11.6	90.8	93.6	94.3	94.3	94.3	94.3	94.3	94.3	95.0	95.0	95.0	95.
Z 1200	41.8	69.3	78.7	81.6	.00	93.6	64.3	94.3	94.3	64.3	94.3	E. 10	95.0	95.0	95.0	95.
	41.8	70.0	80.1	83.7	92.9	95.7	96.5	96.5	96.5	96.9	96.5	96.5	97.2	97.2	97.2	97.
8	41.8	10.0	80.1	93.7	93.6	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.9	97.9	97.9	97.
	41.8	70.9	100	83.7	93.6	96.5	97.9	97.9	-	97.9	97.9	97.9	98.6	98.6	98.6	98.
V 70	41.8	10.0	80.9	4:40	94.3	97.2	98.6	9.06	98.6	98.6	98.6	98.6	99.3	99.3	99.3	99.
	41.8	20.9	80.9	84.4	94.3	97.2	98.6	98.6		98.6	98.6	98.6	99.3	99.3	99.3	99.
8	*1:0	70.9	80.0	84.4	94.3	97.2	98.6	98.6	98.6	98.6	98.6	98.6	99.3	89.3	99.3	99.
	41.8		80.9	84.4	94.3	97.2		99.3		Books	99.3	99.3	100.0	100.0	100.0	100.
88	41.0	10.0	80.9	4.40	04.3	97.2	98.6	99.3	86.66	66.3	99.3	99.3	100.0	100.0	100.0	100
	61.8		80.9	84.4	94.3	97.2	98.6	99.3	89.3	99.3	99.3	80.3		100.0	100.0	100.
8	41.0	10.0	80.0	4.40	64.3	97.2	98.6	99.3	99.3	8.66	99.3	E . 66	100.0	100.0	100.0	100
	41.8	20.0	80.9	86.4	96.3	97.2	•	99.3	99.3	88.3	89.3	99.3	100.0	100.0	100.0	100

TOTAL NUMBER OF OBSERVATIONS

1

CEILING VERSUS VISIBILITY

TOTAL NUMBER OF OBSERVATIONS

						NISIA	IBILITY (ST.	ATUTE MIL	ES)						
5 1	» Al	N AI	AI AI	E AI	1 2%	N Al	¥1 Y	¥1 ¥1	Ä	X Al	* Al	X X	≥ 5/16	N N	AI O
	· ·	100.1	46.0	49.7	49.7	49.7	40.7	49.7	49.	49.	49.	49.7	49.7	49.7	64
			50.0	01.7	61.7	61.7	01.7	3		15	5	5	10	61.	3
			62.4	65.3	65.3	65.9	65.3		65.	6.5	65.	65.	65.3	65.3	5
		65.3	66.7	69.5	69.5	00.0	6.0	69.5	69.9	69.	60	69.5	69.3	69.9	3.
		68.1	69.5	72.3	72.	72.3	72.3	72.3	72.	25	72.	72.3	72.3	72.3	72
		6 -	6.0	73.8	73.8	73.8		73.8	73.0	25.		73.	• •	73.0	Ė.
• •			75.2	78.0		78.0		• •	23	200		14 Oc	8.6	78.0	2
		100	F. C	80.1	80.1	80		• • •	8 6	8				90	0
45.4		80.1	83.7	86.5	86.5	87.2	87.2	•		87.2		87.2	87.2	87.2	
46.8		83.7	87.2	90.06	6.19	92.2	92.2			92.	92.	92.2	92.2	92.2	26
9 4		86.5	90.1	93.6	94.3	95.00			95.0	me	95.	5.6		95.0	2.5
40.0	9.1.0	88.7		96.5	97.2	-		97.9	97.9	97.		97.		97.9	20
	9.1.0	88.7	93.6	97.2	07.0		96	99.3	00	\$ 8	6.6	88		99.3	60
46.8	•	88.7			97.9	98.6	99.3	99.3	00	100	100.	100	100	100	000
46.8		88.7	3.	•	97.9	98.6	99.3	99.3	100.0	00	100	100	100.0	*	000
46.8		88.7	93.6		97.9	98.0	99.3	99.3	100.0	6	22		100	6	90
	- mmmm and and and and ad				1	2	2	2	2	VISIBILITY (STATUTE MILES) VI	10 10 10 10 10 10 10 10	Political Part of the part of	10 10 10 10 10 10 10 10	2	VISIBILITY (STATUTE MILES) VENDRILLY (STATUTE M

0

0

CEILING VERSUS VISIBILITY

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) 7 7

7

7 2%

AI

Al

VI Al

4

2

(FEET)

NO CEILING ≥ 20000 VI VI 00081 00081

....

1

Al

2 5/16

2 Al

٨١

5703

٨I

*

CEILING VERSUS VISIBILITY JAN 68

82.3

84.4

91

48.2

2500

1500

AI AI

44.0

3000

MIN

1500

AI AI

*0

200

9000

V 1400

900 900 900

65.

49.7

1000

MINI

88

ALA

88

MIM

87.9

91.5

92.7.2

98.6

97.9 97.9

99.3 99.3 99.3 99.3

49.7 92.9

88

MIM

49.7

28

AI AI

80

ALAI

0

98.6

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

ALAMEDA, CALIFORNIA

rears	H	
=	ENTAGE FREQUENCY OF OCCURRENCE	(57
	1000 :	(FROM HOURLY OBSERVATIONS)
	ō ≻	SER
	ENC	7 0
	FREQU	OURL
	AGE	DA H
	ENT	FR

CEILING VERSUS VISIBILITY

2	
URREN	(SNC
ö	ATIC
9	SERV
NC.	08
PERCENTAGE FREQUENCY OF OCCURRENCE	(FROM HOURLY OBSERVATIONS)
ITAGE	ROM
PERCEN	E.

0

0

0

CERTING NO CHILING 18. 10 2 6 2 5 2 4 2 3 27% 22 2 1% 2 1% 2 1 2 1% 2 1 2 2 2 2 2 2			TAL					-	-	-		-		-						N		-	-		_			-		_		-
VISIBILITY (STATUTE MILES) VI				1.	•		1		ŧ.	:	3		3		3		1	:	3		3	3	3			:	3	:	3	3		3
VISIDILIY (STATUTE MILES) VISIDILIY (STATUTE MILES) 2 10 26 25 2 4 23 22 56 2 2 58 2 2 58 2 2 58 2 2 58 2 2 58 2 5		AI	2	•	9.4					-	-	7	-		-		-		-		•		120	0		•	0	•				
VISIBILITY (STAUTE MILES) VISIBILITY (STAUTE MI			N	1	7-		13	m		4	•	0	1	M	9	-	7	0	7	N	9	17	7	-	7	•	9		1	0	9	29
26. 26. 27. 29. 27. 29. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27								12	5	7	7	18	2			23		25	2					2	5	2	7	2	g	2		
Series 26 25 24 23 22% 22 21% 21% 21% 21 2% 25 25 25 25 25 25 25 25 25 25 25 25 25			NJ.	L				-		-				-	ļ	-	1	-		N		-						_	크	-		
Valuativ (Statute Miles) 2 10 2 6 25 2 7 2 3 23 23 23 2 2 1		35]	•		3		F		3	•			1		3	:	3		E	:	1	:	3	:	3	:	I		-	• •
20 26 25 24 23 22% 25 2 1% 21% 21 2% 28 2 38 2 38 2 38 2 38 2 38 2 38 2 3				9	0 0	Ö	1	-	•	7	7	7	2	1000000	-	8	-	•	ŏ	0	9	ò	ō	0	5	•	•	ŏ	ĕ	ĕ	: L	ōd
2 10 2 6 2 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			N.	*	7-		1	m	4	-	7	0	4	-	9	-	7		9	N	9	1	7	-	7		9	m	9	0	100	25000000
20 26 25 27 5 22 2 22 2 2 2 2 2 2 2 2 2 2 2 2				19	9 4	6		72	2	7	7	18	2	25	2	33	5		0	25	2	1	2	2	5		3	2	g	2	9	23
2 2 2 2 2 2 2 2 2 2			AJ.		4 -					-	-			-	7	_		20 m		N		-						.00				
20 2 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		*		1	•				3	:	3		3	~	3				3		•	:			3		3			•		3
2 2 2 2 2 2 2 2 2 2		AI		9 3	6 6	Billion All	1	-	-	-	-	-	7		-	0	-		ŏ	6	9	ò	0	0	0	•	0	ò	ĕ	3	9 (to the second second
20 26 25 27 29 2 29 29 2 29 2 2 1% 21% 21% 21% 21% 21% 21% 21% 21%			7	1	-		E	M	4	4	~	0	1	10	9	-	7		9	N	0	m	7	-	7	*	9	m	9	0	100	1000
20 26 25 24 25 26 2 26 2 26 2 26 2 26 2 26		100000	LAXON N	19	9 4	69	-	72	2	2	17	18	2			Designation of	2	50	8			1300	COMPANY OF	2	5	6	2	2				
2 0 2 0 2 2 2 2 2 2			N.	I.	-	· ·		M		-		146		-	_	-			-			-		-				-		A.	•	-
2 10 2 6 2 5 2 4 2 3 2 2 4 2 2 1 1 1 2 1 1		-		1.			9		F		1		3	2	3		-		3			:	1		1	:	1		3	•	•	• •
20 2 2 2 2 2 2 2 2 2	ES)	^1		•	0 4			7	•	~	*	-	-	8	8	8	-		0	0	9	200	0	100000000000000000000000000000000000000	0	•	•	3000			9	00
20 2 2 2 2 2 2 2 2 2	MIL	3		*	7.	. K	1		9	10	7	0	1	· W	9		7	0	4	~	0	·	7		7	0	9	-	9	0		
20 2 2 2 2 2 2 2 2 2	UTE			1	9 4	69	-	72	2	2	17	78	19	85	2	6	3						3			6	5			8		
20 2 2 2 2 2 2 2 2 2	STAT		N.		-				00	*	-	0	4	m	0	_	_	0	40	N	4	n.		-			-	200	-			-
20 2 2 2 2 2 2 2 2 2	17 (١.				2.		;	1		6		-				d		1		4			:	1		3	6		3 4
20 2 2 2 2 2 2 2 2 2	191	AI		•	0 4	•	, -	7	-	-	-	-	•	00	-	0	-	•	0	0	0	0	0	0	0	0	0	•	3	2	9	23
2 0 2 2 2 2 2 2 2 2	VIS				-	1 18	E	6	4	30	4	0	1	m	9	1	7		9	3	9	10	7		7	0	0	*	9	0	9	00
20				20 10 10	SAME SERVICE	9		75	1	7	7	78	10		2	83				26	65			5	3	97	3				are distrib	
2			N		4-	. 20	9	M	8	In	-	0	3	m	0	-	-	0	00	N	0	M	-	-			0	m	3	-		-
2					• «			2			1			2			4	3	3		2	;	4		1	:	1		3		3	3
2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Al	SO 4	9 1	D 4		1	7	-	-	7	-	-		-	00	9		0	0	0	0	0	0	5	•	0	Ŏ,	9	25	9:	29
2 2 2 2 2 2 2 2 2 2				•	1	. 16	L	.3		.5	"	0	4	E.	9	1.	7		4	.2	9	3	7	-			-		9	0	9	5 9
1			8		9 4	3	7.	72		2	11	78	29	82	83	83	8	85	8	92	26	46	3	3				66	8	8	8	
2			N.				4	10	-	-	-	0	4	m	0	-	-	8	-	N		m	N	-	H	•	0	Vinney Ch	400. 11			
1		*		١.	· «			2.			-		0	2			4		d	2.	4	:	4		-		2		3		3	6
N		^'		•	0 4	•		1	-	-	-	-	*	*	-	•	9	•	0	•	9	•	•	0	0	•	9	•	9	2:	9:	39
N		2		•		8		9.			9		7	.6			1	.1	7	.5	2	9	9								7	. 0
VI W 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			57	3:	20	8.6	E	E	2	73	2	1	28	81	82	60	3	85	8	16	22	66	25	95	95	96	8	97	97	20		2
VI WALL TO THE WALL WALL WALL WALL WALL WALL WALL WAL			100 200	The same	100	2.53			200	e may	722		33					THE PARTY	100		22	933261	- 1	Sala -	1		175					50.05
N			6		: 4	I	E	8.	4	ò			-		0		3	-	3		4		8	6	å	:	4	:	1	å.	:	:2
VI W 44444444444444444444444444444444444							10.42	0.235	41.09		200		200		- 63		1		Tank.		12.0			No.			53		200		28 254	
VI WASAAAAAAAAWWWWWWWWWWWWWWWWWWWW																																
			38	7	7 4			46	4	4	48	64	50	50	50	31	3	31	3	3	3	167	3	3	3	34	3	5	3	3		25
CELLING CHILING CHIL													4		-		1		-				-		+		+		+		+	-
SE S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S Z	E	2 8	8	8	8	8	8	8	8	8	8	3	9	8	9	8	8	3	88	3	9	8	88	3	88	3	8	3	88	1	30
¥	CEIL	E	2 4	1					V85 93 R		200		33.9		3.4						200											IAI
			ž																												Ľ	

TOTAL NUMBER OF OBSERVATIONS

1

40.0

62.

65.

66.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) ALAMEDA, CALIFORNIA

CEILING VERSUS VISIBILITY

...

0 Al

AI

2 2%

M Al

٨١

10

4

2

(FEET)

NO CEILING 20000

VI VI 1800 16000

Y 1400

900

AI AI

200

2000

1000

ALAI

3200

	Y	VI 3.	-	% Al	*	% Al	≥ 5/16	Al
_	1	1		52.	2		52.	52
_				40	F	-	60	1
-			6	90		7	61.	0
- 4				61			61.	3
-				62.	:	2	62.	ò
_				63			64.	3
-				65			65.	9
-				99			66.	3
_			1	67.	7		67.	.0
_				69	6	6	69	3
-	6		0	69		6	.69	9
				72	2	2	72.	-
-			1	74.	:	3	75.	7.
				76-		6	76.	7
-			-	77.	-	1	77.	-
			3	81.		-	81.	8
	6	6		83.	3.	4.	84.	84
		-		87.	-	-	87.	8
				88.		8	88.	8
-	6	0	ċ	90.	0	0	90.	6
-				91.	:	-	91.	6
				93.			93.	6
	93.6	93.6	93.7	93.7	93.7	93.8	93.8	6
_		3	;	94.	:	;	94.	6
	٠				1	2		4

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

88

ALAI

88

AI AI

0

80

ALAI

88

ALAI

2000

AIAI

1800

AI AI

1200

ALAI

88

ALAI

HOURS (CAS. T.)

5703 CEILING VERSUS VISIBILITY JAN 68

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOLIPLY ORSERVATIONS)

ALAMEDA, CALIFORNIA

CEILING VERSUS VISIBILITY

	1			
	ı			
	1			
	Н			
	ı			
	1			
	ł	ı		
	u			
	H			
	H			
	ı			
	d			
	ŝ			
	1			
	ı			
	ı			
	ı			
	ı			
	u			
	H			
	ı			
	31			
	ì			
	И	ı		
	ı			
	ı			
	2			
	3			
	g	ı		
	ij			
	ø			
	ij			
	J			
-	ij			
•	ð	١		
	ij			
-	ij			
	ø			
	١			
	9			
	g			
	9			
	J		es.	
_	1			
•	ı			
	H			
100	Н			
>				
	ı			
2				
Ľ	ł			
Ž				
SER				
200				
DOCK				
JOSER				
CDSER				
Cosca				
LI OBSER				
CT OBSER				
KLT OBSER				
JALT OBSER				
UKLT OBSER				
UKLI OBSER				
JUNET OBSER				
CORLI OBSER				
TOURLY OBSER				
HOURLY OBSER				
HOURLI OBSER				
HOURT OBSER				
A HOURLY OBSER				
M HOURLY OBSERVATION				
COM HOURLY OBSER				

		601 4	N. A.	FF	0.0	-	-	10	00	-10	10	00	81 -	-	40	00	00
	•	ni.		100		5	5	00	1:3	6		-				6	66
	Al		-	10	04	00		0	1-1	- 4		00	00	00	00		00
		m		1-1	0.0	- DO 00	-	OF	00	-10	NI		M -	-	40	35	56
	*		7.7	2 0 4			8 · 1									11	3.5
	Al	22	S R	80 0	63		200		122	2 2	8 8		96	98	60	8	88
																	-1-
	5/16	101	44		5.0	8 8		0		~ 0		0.0					
		ST	2	80 0	200	6.5	200	504	22	8 =			98	98	66		29
	Al	-1-					-				GD 60	50	55	0.0	5 2	100	22
		4	4	FF	0.0	20 00	w -	OL	00	~0	N	0 0	21 -		4.0	00	00
	2	NE	-	2 C	-	-	20		- 2	- 0					00	00	00
	Al	m. R	W. R	200	00	00	0.0	04			00 00	00	00	00	00	20	29
		m 4	4	7-7	0.0	80 80	œ	OF	00	-0	N	-00	W -		40	00	00
	*	NI		80	m #	5	50	00	- 2	8 -		- 4	50			00	00
	AI .	W. R	W R	100	0 4	00		.0		1- a	∞ €		00		00	O O	od
		m	**	FF	0.0	30 00		10	00	-10	NI	00	W -	-	30	6	53
	*	10				at the	a									11	1
	Al	25	57	800		65	500	60	25		8 8			98	60	000	88
					, 3, -qui			1 11 11								7-	
			11						0.0			0.4			44		9.5
The year	Al	NI		80 C	00	S IN IN	mr	0.0		8 -	ma		5	STREET, SAME		00	29
ES)		41 6										00	00	00	6 0	122	22
VISIBILITY (STATUTE MILES)	,	1		1-1	0.0	- 00 a		101	00	-10	2	0 4	.5		40	00	00
75	1,4	NF	-	20 0		10 4	mr	00	22		m a	-	m .	86	00	00	00
3	AI .		-	100	00	00	0.0	0		1-4	00 0	00	00	00	00	00	29
ST		m a	4	FF	0.0	GQ GD	æ -	OF	00	-10	NJ	0 2	m -	-	4 6	00	00
2	1%	Nin		-		-	-	00	1				50			00	66
=	Al		-	104	04	00			9-1	-		00	00	00	00	00	00
ISI		10		1-1	0.0	00 00	00 -	10	00	~0	N	00	10 -		40	00	83
>	~		k •6	w .												5.5	
52.80	Al	22	2	18 3	9	9 4		9	125	78			950			000	88
																77	77
	21/2		90			00.00			0.0	-		0.0					1
	7	22	22	1 00 C	9 6	N X	W.	90	22	78			98	000	86	00	00
													5.5		5	5	5.5
		W 4	*	1	00	000	8	0	00	-0	2.4	0 4	5	-	7		4
	N Al	NI		00 0	10	10 K		0.0			-				00	00	
		80 R	1 NO 11	2	04	.00	0 4	.01		F- a	-	00	00	00	00	00	00
		m 4		17	0.0	00 00	00 -	10	00	0	2	00	m -	-	1-3	4 4	3 4
	*	Nic			m a		2	0 0		-		-				00	00
	AI.	-	-	101	04	00	0	0	orr	~	00 4	00	0.0	00	98	00	00
		m	4	14	0.0	-	00 -	101	00	~0	24	00	00	60 6	4-	-	
	49	25	•	• •													
	Al	2		3	0 6	9 9	0	9	25	7		00	6	6	6	6	6
		Land Land							00		10000						
	•		允许									0.		11		200	
	Al		20	9		50	35	59	122	128	20		33	96	97	8 8	98.
1																	
	-					-	-	100	200		100000000000000000000000000000000000000	20	A 18 18 18 18 18 18 18 18 18 18 18 18 18				22
	5 7		-	100		- 00 0	200		56	-	0-	-	-	44		* *	99
	AI .	4	4	44	N. R.	-	- M	- ×	an a	-	0 0	0.0	-0-0		-00	20	9 0
	51/25	O												4			
CEILING	=	NO CEILING	18000	88	900	2000	2000	4000	3200	2000	1500	1200	88	88	98	88	80
1	#	D CEILIN	20	14000	88	88	88	44	38	22	B 2	25	~ .	~ •	7.7	64	V E
2	-	0 1	ALAI	MIM	ALAI	ALAI	ALAL	ALAI	MIM	MIM	ALAI	ALAI	ALAI	MINI	ALAI	ALAI	ALAI
		Z															

TOTAL NUMBER OF OBSERVATIONS

5703 CEILING VERSUS VISIBILITY

-

٨١

٨١

٨I

*

% AI

AI

٨١

7

1 2%

۳ ۸۱

Al

۰۵ ۱۸

AI

2

(FEET)

NO CEILING ≥ 20000 18000

VISIBILITY (STATUTE MILES)

JAN 68

69.7

72.9

50.3 64.5

2000

1500

3000

0

2500

ALAI

1800

AI AI

2000

0

V 1400 12000

AI AI

97.4

97.4

97.4

91.6

91.6

91.6 91.6

91.6

96.1

63.2 93.6 93.6

61.3

1200

ALAI

0

63.2 94.1

88

ALAI

63.2

88

AIAI

63.2

88

ALAI

80

ALAI

88

AIAI

84.5

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

ALAMEDA, CALIFORNIA

NAVAL WEATHER SERVICE DETACHMENT SHEVILLE N C F/6 4/2 SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS), ALAMEDA--ETC(U) AD-A060 998 JUN 78 UNCLASSIFIED NL 3 OF 4 AD AD AD AD AD AD

5703 CEILING VERSUS VISIBILITY CEILING VERSUS VISIBILITY 0 N N PERCENTAGE FREQUENCY OF OCCURRENCE ٨١ (FROM HOURLY OBSERVATIONS) VISIBILITY (STATUTE MILES) 2 2% VI VI 14 AI 2 80 CEILING (FEET) VI VI 00091 00091 Y 14 12000 999 3000 2000 88 999 1500 1200 88 88 AIAI ALAI AIAI MIAIA AIAI AIAI

0

0

NAVWEASERVCOM

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1

	AI .	24.		0	5 66.	5 66.	67.	7 67.	9 72.		2 4		7	8	.4 97.	4 97.		96	.7 98.	. 7 98.	4 99.	68	
	VI 74	25	9	9	662	0	67	101	72.	72	2 2	1 87	5	76		97	6 6	96	1 98	4 98	66	00	
	≥ 5/16	54.2		::	6.5	9		67.		72.5	7.2	87.	0	77.	-	97.	800		. 86	98.		60	
	Z.	54.2	61.0		65.8	2											98.0	98.				000	
	* AI	54.2		61.9	65.8	3		:		2.	24.0		6.	0 6		.0		98.1			98.7		
	N AI	54.2		61.9	65.8	5		-			74.00 B1.00		6	0.70			286		98.1		8	7.86	-
9	-	54.2	6.1.9	6.1.0	65.8		66. 66. 66.	•	Name of Street, or other Persons	72.3	24.0	86.5		01.0	.0	3	98.1		98.1			7.86	
UTE MILES	× 1	54.2	61.3		65.8		66.5	-	72.3	2			6	04.0	è		1.86	8 00	98.1	1.86		1.86	Š
VISIBILITY (STATUTE MILES)	¥ 41	24.5	m :	0	25	5.8	2000	7.1	9 00	2.3	20.00				9.9		98.1		98.1		-	1.4	9
VISIBI	N AI		100	61.9	00	-		7	m m		12.0	6.5			30	8 . 8			•	8.1	2.		
	2 2 3 %	54.2	61.3	6.19	25	-	66. W		72.3	72.3	9.4	86.5	89.7	01.0		8	4.70		*	97.4	8.1	1.86	
	e Al		6.		53.8	-	5.5			72.3	9.4.	86.5		0-10			4.76	27.6	97.4	4.70	7	7.86	
	7	53.6	200	61.9	65.2		65.0	56.5	1.0	71.6	24.5	85.8	6			3		à è		. 9	•	8.96	
	\$ 41	53.6	50	61.3		4.5	65.2	9.8	71.0	71.0	9.0	5.5	88.6	20.00	95.5	95.5			6.1	1	1.9	1.06	
	9 Al	0	0	60.0	70	•		~	-	and a	72.3	0	86.5			9	93.6	9 6	9				
	5 4	COR.	90	90		9		.2	10000		45.2	-	9			2.3	2.3	7 0	2.3		"	W.	
	CEILING (FEET)	NO CEILING			00691	8	980	0009	8	0007	3000	2500	8	986		0001	88		900	900		88	

0

0

.

0

0

NAVWEASERVCOM

1

TOTAL NUMBER OF OBSERVATIONS

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

HOURS (FS. T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	٨١	57.	63	37	22	22.	72.	5	8.3	2:	38	58	23	88	500	88	100
	N N	57.4	63.	65.	17.	72.37	72.3	F	83.2	60	94.2	58	33	28	100.0	100.0	100.0
	2 5/16	57.4	63.0	65.8	71.0	72.3	72.3	11:4	83.2	89.0	2.5	4.5	4.00	99.4	99.4	0000	0000
	% Al	42.04	69	65.8	1.0	72.5	72.3	1	893	0.00	7.0		**	200	40.00	000	00.00
	* 1	57.4	69.6	65.0	0.5	72.3	72.3	**	89.5	0.00	24.0	500	**	::	40.00	000	00.00
	* *	\$7.4	69.6	65.8	0.0	72.3	72.3	1.5	83.2	0.68	700	4.00	4.00	4.00	4.00	00.0	00.01
	- 41	57.4	53.0	90		72.3	72.3	**	83.5	0.00	24	4.00	4.00	***	4.00	(Shreditor)	10.00
JTE MILES)	¥1 Y	40.6	•	9.		2.3	2.3	-0	2.6	0.6	2.5	90	P. 98	1.0	•	10.00	19.4
VISIBILITY (STATUTE MILES)	%1 Y	10.0	0.0	9.6	0.4	2.3	W. 4		13.2	0.6	2.4	96	14	P.P.	F 4	***	4.6
VISIBIL	2 4	40.0	63.0	8	0	80	5.3	-	3.2	0.6	2.4	81	14	7.	1.00	**	10.6
	> 2%	40.4	0.0	9.5	0.0	200		44	23.5	0.0	2.7	90.00	7.80	7.80	1.00	4.00	4.66
	6 41	7.4	0.0	9.0		2.3	6.2		3.5	0.6	2.4	91	7.	7.7	P 4	***	*
	1	4.4	0.0	0.0	0.4	2.3	2.3	*	2.5	0.0	9.0		1	***	4.6	7.7	19.7
	s	7.4	0.0	9.	0	2.3	6.2		2.5	0.0	9.0	3		***	1.0		9.1
	9 41	7.4.5	00	8.9	00	0	3	6	0.0	4.4	200	2	2.0		9.5	200	9.8
	2 4	4		41-1	0	000	0	-	57.48	36	100	000	100	1816	A SOLD COLUMN	NA	N
CEILING		NO CEILING	18000	1,4000	0000	8000	0009	0007		2500	0081	1200	88	808		300	8.
	E	2 A	MM	MM	MAI	100000000000000000000000000000000000000				DOM: KEE			ALAI	ALAI	ALAI	AIAI	A1/

NAVWEASERVCOM

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE	(FROM HOURLY OBSERVATIONS)

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FET)	5 YI	9 Al	8 21	7 /	€ ≥	%2 ₹	1 2	%1 ₹	×1 ×	- 1	% Al	* 11	Z AI	≥ 5/16	% AI	0 11
NO CEILING	47.7	94	0.00	31	60.00	60.0	0.00	0.04	0000	60.0	0.0	0.00	60.09	0.09	0.4	000
1800 00091 YI	33.0	::	50	1:5	67,1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	27.1	67:1	3
N 14000	34.	53	60.7	2.3	69.7	69.7	69.7	50.7	69.7	69.7	69.7	69.7	60.7	69.7	6.0	30
0000 AI AI	50.1	73.0	9:07	5.57	13.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.0
900 1 Al Al	97.4	2	7	2.5	76.1	76.1	76.1	76.1	70.1	76.1	76.1	76.1	76.1	76.1	76.07	76.5
	55	77:5	***	78.1	78.1		78.1	78.1	78.1	78.1	10.1	70.1	78.1	78.1	10.1	125
VI VI 4000 4000	3.5		0.10	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	83.7	83.2	82.6	82.6	82.6
3000	65.2		85.0	26.5	86.5	86.5	86.5		86.5	86.5	2 . O	86.9	86.5	89.7	86.9	96.0
Y 2500	68.4	91.0	91.0	92.9	92.9	92.9	92.9	9.26	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.90
VI VI 0081	4.80	6.26	92.9	94.2		94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2 1200 2 1000	68.4	94	95.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	90.1
9 8 AI AI	68.4	94.8	95.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
VIVI 58	68.4	95.9	::	98.7	99.4	99.4	99.4	99.4	99.4	99.4	93.4	***	99.4	99.4	99:1	33:
17 17	68.4	95.5	96.1	7.86	99.4	99.4	90.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.00	100.0
30 1 A 1 A	68.4	95.5	96.1	98.7	4.66	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0000	100.0
80	68.4	95.3	96.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0000	100.0

5703 CEILING VERSUS VISIBILITY JAN 68

NAVWEASERVCOM

TOTAL NUMBER OF OBSERVATIONS

0

O

CEILING VERSUS VISIBILITY

TOTAL NUMBER OF OBSERVATIONS

0

1

10.0	O AI	58.7	63.5	67.	7.			2	2	86.9	92.3	46	96.	96.6	98.1
Alesanos	N N			6.7											98.1
1	-	-	-		04	-	-	-	40	W1 10	m 6	-	-		-

				1000								Charles of the Control of the Contro			Service of the servic	
CEILING							VISI	VISIBILITY (STATUTE MILES	ATUTE MIL	ES)						
(FEET)	VI 5	٨١	S AI	4	e Al	> 2%	2 AI	¥ .	¥1 Y	Ā	× N	* 1	Z Al	≥ 5/16	× Al	AI
NO CEILING			58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	2
VI VI 00081 16000	\$ 9	San Hall	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	69.0	63.9	63.9	63.9	63.9	0
1400	9.1.6	1 740 00	7.5	5	67.1	07.1	67.1	04.	67.1	07.1	67.1	67.1	67.1	67.1	67.1	00
900 900 900	54.0	100000000000000000000000000000000000000	0.17	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71:0	71.0	71.0	
0002 AI AI	58.1	1 A 1 A 1 A 1		74.8	74.0	74.8	74.8	74.8	74.8	74.8	74.8	74.8		7.	***	
900 AI AI	58.1	\$1.5 die 103	7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	~ ~
1 V I V I	9		25	78.1	200	78.1	78-1	70	78.1	78.1	78-1	78.1	78.	78.1	78.	~
3300	60.4	79.4	79.4	70.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	83.2	-
Y 2300	63.2		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.9	86.5	86.5	92.3	86.5	86.9	00
2 1800 2 1500	64.5	and the same	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	00
Y 1200	64.5	a diameter and the	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	00
8 8 AI AI	65.2	La Marian Wald	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.8	96.1	96.1	96.1	96.1	00
VI VI 808	65.2	Total and	94.8	95.5	96.8		0	115. 12. 12. 12.	96.8		96.8	96.8	96.8	96.8	96.8	00
400 1 1 1	65.2	and the same of	95.5	96.8	100.00	98.1	98.1	100.0	98.1	10001	100.00	100.0	100.0	100.0	98.1	10
380	65.2		96.1	7.86	100.0	100.0	100.0	100.0	100.0	00	100.0	100.0	100.0	100.0	100.0	29
% o	65.2	Selection of the	96.1	98.7	100.0	100.0	100.0	100.0	100-0	100.0	100.0	100.0	100.0	100.0	100.0	29

HOURE TE. T.

0

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

		1	N	N	7		-	0	-	-	0	N	-		0	0	9	N	a	m	M	N	-	-	-	-	-	0	0	0	a	0	P
	O AI		4				-	:	E	.2.	2.		1		9	0	2.			0	2.	;	1					ò	å	00	0	ė	4
		5	9	0	9	•	9			-		-		-	-	-	-		~	0	9	0	•	•	-	•	-	01	9	2	9	2	3
	74	-	3	.2	3		3		Ė				3	:	9		3	1.2	9		-			-	-	-		0	Ė	9	9		3
	AI	58		6	63	69	9	7	2	72	72	74	7	7	80	80	82	83	8	8	92	3		86		6	96	001	9	00	0	8	g
		-	7	N	~	8	7	0	9	-	9	N	-	4	9	0	0	N	0	m	m	N	4	-	-	-	-	0	9	8	9	0	9
	5/16	28	7	23	2	53	3	12	7	72	72	4		2	90	80	82	2	6	06	32	*	2	86		86	86	00	9	00	9	8	d
	AI	-	7	N	2	40	1	0		·			-	*	0	0	9	N	0	M		N	-	-	_	-	-		-	70	100000	3	급
	2						1	-		2.	2	•	1		0		2		6	0	3.		-						0	0	0	0	3
	٨١		9	•	9	•	9	-	1	1	1	1		-	•	•		•	-	0	•	0	0	•	•	•	0	2	2		10	2	10
	*		+							. 3		.2		:				.2			•	.2			.7					.0			9
	AI	58	3	69	63	63	6	7	71	72	7	7	7	5	80	8	82	83	89		92	4		98		8		8	00	8	0	8	9
		F	7	N	7	8	-	0	0	m	0	N	-	*	9	0	0	N	9	m	m	N	•	-	-	-	-	5	9	9	9	5	ą
	N N	58	7	63	3	59	7	7	7	72	2	1.	1	2	9	80	82	83	68	06	2	16	2	98			98	8	00		8	8	g
		-			2			0		m	100	N	3	•	0	1	-	~			35			-	-	-	-	3	-	70	금	7	큽
	~		•				1	:		2.					3	•			•		2	:	-		. 8						6		3
ES)	^'		9	•	9	•	9	-	•	4	-	1	7	-	8	20	8	•	8	0	•	0	0	0	6	0	•	10	9	10	9	10	9
¥	7.1	.7	7	.2		•		•	E		.9	.2	*	4.	9			.2		.3	. 3	.2	•					0	E	0.	0		9
5	AI	58	3	9	69	5	67	2	-	72	72	74	1	7	8	80	82	82	89	8	92	46		86	98	86	96	8	8		9	8	8
(STATUTE MILES)	ž,	-	7	N	~		4	0	d	-	0	~	3	*	q	0	0	~	0	m	~	~		-	-	-	M	8	0	8	8	8	4
F	AI		4	2		2		=	E	12	2	•	2	2	ĕ	9	2	5	6	0	92	ż	2	98	86	98	8	00		8	8	8	d
VISIBILITY		-	7	~	2	8				-		~		3	-	0	3	~	7	-	5	N	3	5	~	2	2	210	2	10	킇	70	궑
>	~				3	3		-		2	E		1				-		9.	•	2		7.		•						3		3
	AI		9	•	9	•		-	,	7	7	•		-							6	0		0		0	6	01	10	10	9	20	9
	2%		7	.2	7	*	7	0	9			. 2	*			.0						. 2	. 4		.7		.7	*		*	-	•	7
	AI	20	3	69	63	65	6	7	7	72	72	74	77	79	80	80	82	83	89	8	92	46	97	98	98	98	98	66	66	6	6	6	8
		-	7	7	2		7	0	9	m	0	~		4	q	0	0	N	q	m	~	N	-	-	7	-	7	*		*	4	*	3
	AI	2	1	63	3	55	4	=	3	72	2	4		2	80	80	82	33	6	0	92,	94		86		86	8	2	2	66		6	9
		-	교	~	2		1	0	0	-	0	N		3		0	9	~	0	-	6	2		_		_		-	2	-	7	-	1
	AI		-			3.	1		9		2		77.		9		2		6	0	2.	•	. 9		8		8		8				4
			9	•	9	0	9	-	7	1	-	-	7	-	-	•	8	•	-	0	9	0	•	0	•	0	0	0	9	•	~	•	2
	*	-	3	.2	2			9	Ė		2	.2	3	:	9		6	.2	99	:	9			:	3	3	k	:		*	3	:	3
	AI	2	3	5	9	2	9	7	-	72	2	=	7	2	80	8	82	5	8	6	6	6	96	2	97	5	9	6	6	9	6	9	9
					707		-					~	100° I		2007	0					1000		STORY .		-		4	•	9	•	9		4
	AI	2	3	5	2	2	1	=	F	72	P	2	1	2	9	0	2	2	9	6	2	20	5	20	96	96	96	96	9	96	2	96	9
		ALCOHOL:	Sale C						1000	1	-		200										N. Call		150					1000		~	223
	2		4	2.	2		-		8			60.	3	-	-	-	386.		3	335	-		3		-						3		-
	AI .			5	2	5		-	1	~	2	•	9	•	•	•	•	62	•	•	•	•	9	•	9	0	9	•	0	•	•	0	9
0	_	SE SE	3	8	8	2	8	2	8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	200	2	2	2	8	
CEILING	FEET	NO CEILING	3	18000		14000		10000	0.00	8000	G.W	9	8	450	\$	3500	8	2500	3	180	25	1200		8	*	8	3			38			
Ü	-	2	M	AI.		AI.		Al	AI	Al	Al	Al	AI	Al	Al	Al	٨١	M	AI	٨١	AI	Al	٨١	Al	٨١	Al	AI	Al	٨١	AI.	AI	Al	M
177.55		1000	-		THE STREET		12.27		I CON	-	-	-	(13)			1	177	-	-	-		-	100				1	-	-		-		_

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

0

NAVWEASERVCOM

0

6

6

House Atok

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CERLING					1		VISIA	VISIBILITY (STATUTE MILES)	ATUTE MILI	ES)					-	
E	5 11	ÅI.	\$ 11	7.2	E AI	2 2%	7 1	VI Z	VI Ž	Ā	# Al	# Al	N S	2 5/16	z. Ai	N
NO CEILING	42.1	Second .	94.0		84.9	54.9	:	40		9.40	8.40	54.9	34.9	94.9	34.9	5
18000	45.7		:								39.8	59.8	80.0	20.	50.8	
14000	7.		200	0.0	0.10	61.0	6	0.0	55	6.1.9	6.1.0	9.5			0.10	25
9000	0.0	-	3.												90	3
2000	20.0	40.4		0.9	2.8	68.2		68.2		68.2	68.2	200	98.5	68.2	2.84	33
900	51.5			0.69					69.1			100				3.
989	53.8				1000000							70.0	2.0	24.0		
3000	34.9	فأنفأ	76.1		100		76.5		76.9		76.5	76.9	90.3	70.0	9.0	20
2000	58.2	See dies			1000							83	83.0	63.9	63.	
981	90				Control of the last of the las		64	89.4 92.8			89.4	20.4	99.4	9.8	9.0	22
8 8 8 8		~ ~ ~ .	***	2000			27.2		200	200	46.	182	196	46.	200	245
58 8	333		5 6 6		200	288	-	-			-	2.5	2 9 8	2 8 8	233	: 23
200 40	000	. 0 0 0		2 2 2 2			0000		960	900	000		464	000	:::	:::
8.	61.7	-	96.5					99.0		99.8		99.8	::	99.6		100

0

NAVWEASERVCOM

0

0

0

1240

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALAMEDAS CALIFORNEA

CEILING VERSUS VISIBILITY JAN 68

HOURS CAS. T.

0

TOTAL NUMBER OF OBSERVATIONS

0

CEILING VERSUS VISIBILITY

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

0

TERIN	CEILING							VIS	VISIBILITY (STATUTE	TATUTE MI	MILES)						
20000 50.0 68.7 68.7 68.7 68.7 68.7 68.7 68.7 68.7	(FEET)		10000								- AI	% AI	* 11	% Al	≥ 5/16	AI X	N
18000 50.0 68.7 68.7 68.7 68.7 68.7 68.7 68.7 68.7	NO CEILING	48.0	65.	0	65.3	10		65.	65.3	10	65.	65.3	65.3	65,3	65.3	65.	2
10000 50.0 68.7 70.7		50.0	33	0	68.4	68.7		90	6.89			0.89	68.7	68.7	68	300	33
10000 10.0		50.0	33	90	68.7	Ch Allins		90	68.7	68	+ .	90	68.7	68.7	689	689	33
2500 52.7 71.3 71.3 71.3 71.3 71.3 71.3 71.3 71		50.7	3	. 69		0		99	69	69	9	69	.69	69.	.69	200	
3500 52.0 70.7 70.7 70.7 70.7 70.7 70.7 70.7 7	55 225	81.3	ė		•	5 6		30		20	9,6	25	70.0	70.0	70.0	70.0	56
2500 55.7 71.3 71.3 71.3 71.3 71.3 71.3 71.3 71		52.0	ė	2				70.	70.	20	70		10.			7	2
2500 54.7 73.3 73.3 73.3 73.3 73.3 73.3 73.3 7		52.7	Ė.	=	• •			71.3		=	-	5		71.3	=	7	12
2000 56.0 76.0 76.0 76.0 76.0 76.0 76.0 76.0 7		54.7	5		73.3	73.3		73.3	73.3	5.	3:	73.3	73.3		73.3	73.3	72
2000 57.3 79.3 79.3 79.3 79.3 79.3 79.3 79.3 7		20.0	200	100				200	25	90	90	200	76.0		100	95	125
1800 60.7 85.3 85.3 85.3 85.3 85.3 85.3 85.3 85.3		57.3	2	2				79.	2	79.	6.5			2.4	79.3		
1200 64.7 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0		60.7	8.0	85.			50	85.	500	85	80	80.	85.3	800	85.	800	
200 66.0 96.7 97.3 97.3 97.3 97.3 95.3 95.3 95.3 95.3 95.3 95.3 95.3 95		64.7	92.	92.	2.		2 3	92.	92.	92.	92.	6	2	92.			00
200 66.0 97.3 97.3 97.3 97.3 97.3 97.3 97.3 97.3		66.0	**	95.	95.3		5	95.	95.	95.	98.		95.3		65.3		00
200 66.0 98.0 98.7 98.3 98.0 98.0 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7		99	90	97.	97.3	- 4		97	9.	97.	97.	97.3		94		97	00
200 66.0 98.0 98.7 98.7 99.3 99.3100.0100.0100.01		66.0	97.	98.			80	98.	96	.86	98	98	1000	98.	98.7	98.	2 5
10. 0010.0010.00 8. 90 T. 90 T. 80 O. 80 D. 66. 001		66.0	98	00	7.80	99.9		100	100		25	100	00	-	100.0	100	93
	80	999	88	0.0	98.7	99.3	99.3	100.0	100.0	100	100.0	0	100.0	-	100.0	100	8

HOURS (1.5.7.)

5703

CEILING VERSUS VISIBILITY JAN 68

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1		
		"
		;
	LES)	,
	Y (STATUTE MII	
	IIBILITY (ST	*** *
	VIS	. *
		. ,
		,
		. *
		,,

NO CEILING	W	VI 2000000000000000000000000000000000000	VI W W W W W W W W W W W W W W W W W W W	WAWA COOM WALL	10000000000000000000000000000000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2	* 1 66 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8/8 00 00 00 00 00 00 00 00 00 00 00 00 00	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	% % % % % % % % % % % % % % % % % % %
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10000000000000000000000000000000000000	WH WAL GOLLL LW LW LW	WI WWL GOLLL LW	W1 W 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	000000000000000000000000000000000000000				2220000000		222000000	0 NAM+ 400	
18000 48 0 63 15000 48 7 64 17000 49 3 68 7 70 17000 52 0 70 170 170 170 170 170 170 170 170 17	2000 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*************	844484000-2401 844-600-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	WW 4 4 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	MM + 400 000 1	mm 4 4 8 8 0 0 0 0 0 0				77700000		77700000	66 66 66 66 66 66 66 66 66 66 66 66 66	
12000 4 9 3 6 8 7 7000 5 2 0 70 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1001 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- 00	- 000 - 000		-000 PARA	40000000				7770000	400000000000000000000000000000000000000	688.00 7.00 7.00 7.00 7.00 7.00 7.00	0 0 0 0 0 0 0 0 0 0 0 0	
10000 49.3 68.8 8000 52.0 70.0 68.0 52.0 70.0 52.0 70.0 52.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 7	14 14 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16	OL LL L W L W L W	00000000000000000000000000000000000000	OFFFFFFF				0.007		2220	88000	68.0 70.7 70.7	68.0	
2500 58.0 70. 2500 52.0 70. 2500 52.7 71. 2500 54.7 73. 2500 56.7 76. 2500 56.7 76.					7007		7.05 7.05 7.05 7.05 7.05 7.05 7.05 7.05	70.7	55525		500	70.7	E 6075	
2500 54.0 70. 4500 54.0 72. 4500 54.7 73. 3500 56.7 76. 3500 56.7 76. 2500 58.0 78.			LUL WLW	- M - M - M	70.7		7.27	71.3	27.2	7 70.7	70.7	70.7	5.5	70.07
2500 56.7 77 2500 56.7 77 2500 56.7 77 2500 58.0 78.		7.67 7.67	<u> </u>	7 E L E	75.7	13	72.7	72.7	72.	3 71.3	71.3	71.3	70.7	70.7
2500 56.7 76. 2500 56.7 77. 2500 58.0 78.	-	76.77	L. E.	10.1	73.3	73.3		(30.5)	73.3	72.7	72.7	72.7	72.7	72.7
2500 58.0 78.					76.7	76.7	76.7	76.7	76.	76.7	76.77	76.7	76.77	76.7
		78.7	78.7	2.0	78.7	78.7	78.7	78.7	78.	7 78.7	78.7	r =	78.7	78.7
886	MNO	100	7.3 88	200		82.0	200	200	82.		82.	82.	86.0	82.0
00 60 93.	9 9 9	94.7	94.79	W - W	m - m	94.7		94.7	94.	94.7	94.7	94.7	94.7	94.7
9 9 9	9 9 9	W W F (600	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	- L &			- 60	98.	98.	98	000		
300 60.0 96.	11	200	100	000	m m m	M M	99.3	100.0	1000	0100	0000	000	100.00	988
100 60.0 96.	44	66	99.3 9	m m	m m	66.3	99.3	100.0	100	00	100	-	100.01	

TOTAL NUMBER OF OBSERVATIONS

0

TOTAL NUMBER OF OBSERVATIONS

1

100.0100.0100.0100.0100.0100.0100.0100.0100.0100 100.0100.0100.0100.0100.0100.0100.0100.0100.0100.

9 9

88

99

88

80

AI AI

0

0

9

88

ALAI

0

		-
		-
=		5
Ē		-
ž		2
		00
		ž

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

٨١

(FEET)

NO CEILING

0

≥ 20000

VI VI 0008 1 0008

0

0

Y IV

2000

0

9000

900

4500

0

3500

2500

ALAI

1500

ALAI

1200

ALAI

88

ALAI

CEILING VERSUS VISIBILITY

211	1	-	-		10	50	0	U	-		-	17	0	1	L	-	(4)	10	-	11	101	30	64	1	107	-
٨١	. 49	3	.89	69	70.	1	72.	72.	72.	72	72.	74.	76.	17	70.	9	83.	89.	90.	93.	95.	17.	97.	.86	.66	. 60
	-	H	-		0		0	q	-	-	-		0		m	-	(M)		-	64	m	20	(17)		M	
Ni Ni	90	4	68	69	70	1	72.	72	72	72	72.		76	11	79	80	83	89	06	63	95	97	97	98	66	90
91/9		-			0	-	0	9	-	-	-	-	0		100	-			-	*			Em)			*
14	49	88	68	69	70	7.	72	72	72	72	72	7.	76	77	79	80	83	89	90			97	97	98	66	
Z Al	64.7	68.7	68.7	69.3	70.0	71.3	72.0	72.0	72.7	72.7	72.7	74.7	76.0	77.3	79.3	80.7		89.3		93.3				98.7	66.3	
*	64.7	68.7	68.7	69.3	70.0	71.3	72.0	72.0	72.7	72.7	72.7	74.7	76.0	77.3	79.3	80.7	83.3	6	4006	93.3	95.3		97.3		E . 66	
% AI	1.49	68.7	68.7	69.3	70.0	71.3	72.0	72.0	72.7	72.7	72.7	74.7	76.0	77.3	79.3		83.3	89.3	7.06	93.3		2	97.3	8	66.3	
-	64.7	68.7	68.7	60.3	70.0	71.3	72.0	72.0	72.7	72.7	72.7	74.7	76.0	77.3	19.3	80.7	83.3	89.3	40.4	93.3	95.3	97.3	97.3	98.7	99.3	0
7.	64.7	68.7	68.7	69.2	70.0	71.3	72.0	72.0	72.7	72.7	72.7	74.7	76.0	77.3	79.3	80.7	83.3	89.3	7.06	93.3	95.3	97.3	97.3	98.7	66.3	
۲۱ ۲۶	64.7	68.7	68.7	69.3	70.0	71.3	72.0	72.0	72.7	72.7	72.7	74.7	76.0	77.3	79.3	80.7	83.3	89.3	90.7	63.3	95.3		97.3	98.7	99.3	6
N N	64.7	1889	68.7	60.3	70.0	71.3	72.0	72.0	72.7	75.7	72.7	74.7	76.0	77.3	79.3	80.7	83.3		90.7	93.3	95.3	97.3			E-66	
1 2%	64.7	68.7	68.7	69.3	70.0	71.3	72.0	72.0	72.7	75.7	72.7	74.7	76.0	77 3	79.3	80.7	83.3	89.3	90.7	93.3	95.3	24	M	98.7	86.3	60.3
κ Al	64.7	68.7	68.7	69.3	70.0	71.3	72.0	72.0	72.7	72.7	72.7	74.7	76.0	27.3	79.3	80.7	83.3	89.3	7.06	93.3	95.3	97.3	97.3	98.7	89.3	
V I	64.7	68.7	68.7	69.3	70.0	71.3	72.0	72.0	72.7	72.7	72.7	74.7	76.0	77.3	79.3	80.7	83.3	89.3	7.06	93.3	95.3	97.3	97.3	98.7	7.86	98.7
۲۵ ۱۵	64.7	68.7	68.7	69.3	70.0	71.3	72.0	72.0	72.7	72.7	72.7	76.7	76.0	77.3	79.3	80.7	E . E	89.3	90.7	93.3	95.3	97.3	97.3	98.7	7.86	
۰ ۱۸	64.7	68.7	68.7	69.3	70.0	71.3	72.0	72.0	72.7	72.7	72.7	74.7	76.0	77.3	79.3	80.7	83.3	89.3	7.06	93.3	95.3	97.3	97.3	98.7	98.7	OB. 7
2	0.0	-	7.5	3.2		1.7		3		20	0		1	2	1	0.6		0.0	7	2			1			-

NAVWEASERVCOM

ALAMEDA, CALIFORNIA

NS
ATIO
OBSERV
ō
NUMBER
TCTAL

HOURS LES. T.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	-	1	-	N	0	M	m	0	-	N	-	0	m	M	0	H	0	(F)	0	H	-	1	643	m	m	9	0	a	0	O	01	7
	0 Al	10	78.	78.	80.	80.	81.	82.	82.	82.	82.	84.	85	87.		90.	92.	95.	98.	98.	98	98.	66	.66	66	100.	100	100	100	100	100	100
	VI X	70.7	18.7	18.7	80.0	80.7	61.3	82.0	82.7	82.7	82.7	84.0	85.3	87.3		7.06	92.0	95.3	98.0	98.7	48.7	98.7	E . 66	99.3	E . 66	00.00	0.00	0000		0000	0.0	000
	5/16	N. F.	-	-	0		m.	9	r.	2	F.	0	·		0		0.	-	0				•	•	-	9	10.	10.	10.	0	0	9
	٧١ د	120	78	78	80	30	81		82			84	83	87		90	26 0	95	96	98	86 4	86 2	66	66	66 E	100	0100	-	2	0 100	0100	
	N Z	70.	78.	78	80,0		81.	82.0	82.	82.	82.	84.	85	87.			3			98.	98		66				0	0	0	0	8	
	*	7.07	78.7	78.7	80.0	0	81.3	82.0	82.7	82.7	82.7	84.0	85.3	87.3		90.7	92.0	95.3	0.86	7.86	1.86	18.1	6.66	99.3		0.00		00.00	0.00	00.0	000	00.00
	*	7.0	8.7	8.7	0.0	7		2.0	2.7	2.7	2.7	0.9	5.3	6.7	0.8	7.0	0	5.3	0.8	8.7	8.7	6.7	*	~	w. 0	0.01	0.01	-	5	0.01	-	
	٨١	7,	7	7		00	8	8	4	7 8	4	8	80	8		7		9		7		6	3 66 €	0	0	2	010		010	010	010	010
ES)	VI -	70.	78.	78.	80.	80.	81.	82.	82.	82.	82.	84.	85	87.	88	90.	92	95	98	98	98	98	66	66	66	100	100	9	100	100	-	d
VISIBILITY (STATUTE MILES)	71 71	70.7	78.7	78.7	80.0		81.3	82.0	82.7	82.7	82.7	84.0	85.3	87.3	88.0	90.7	92.0	3	98.0	8	98.7	98.7	99.3	99.3	99.3	00.00	0000	0	0000	00.0		000
ITY (STA	11%	0.0	8.7	8.7	0.0		.3	2.0	2.7	2.7	2.7	4.0	5.3	7.3	8.0	0	5.0			8.7	4.8		6.3	6.0		0.01	0.01	00.01	0.0	0.0	0.0	00.00
VISIBIL	۸۱ م	1.0	7	-	8	. 7 B	.30	0	. 7	7 8	. 7	8	100	8	.0	.7 9	0	.3 9	60.	.7 9		.79	60	.3		.310	.310	3	· 310	.310	.37	
	Al	70	78	78	0 80	8	81	82	82	82	1 82	84	3 85	8 87	88		0 92	0	96 0	0	1 98	7 98	3 99		3 99	0	3 99	9 99	800	99	60	2 99
	2 21/5	70.		78.	80.0	0	81.	82.	82.	82.	82.	84.	85	87.	88.	90.	92.		98.	•	98.	98	66		.66	.66	.66	.66	66	.66	99.	
	8	70.1	78.7	78.7	80.0		31.3	32.0	32.7	32.7	82.7	84.0	85.3	87.3	88.0	90.7	92.0	95.3	0.86	98.7	7.86	98.7	66.3	6	66.3	6.66	8.66	99.3	66.3	66.3	66.3	99.3
	7.	10		8.7	0.	2.0	E . I	2.0	2.7	2.7	2.7	4.0	5.3	7.3	8.0		2.0		0	8.7	2.1	6.7	0.3		6.9	6	66.3	6		66.3	6.0	99.3
	Al	51	0	7	0		8	8	8	7 8	7 8	8	8	3 8	0		0	3	0	7 9	7	7 9	3	3	6	3	9		3		0	
	VI	5	400	(5)000						C 4 4 7 1				-		5.000						1000										
	11	7.01	78.7	78.7	80.0	80.7	81.3	82.0	82.7	82.7	82.7	84.0	85.3	87.3	88.0		92.0													•	98.	
	2 1	58.0	68.3	6 8 9	0.99	0.99	66.7	67.3	68.0	68.0	68.0	69.3	70.7	72.0	72.7	74.0	74.7	75.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
S S	E				14000		0000		9000		0009		4500		3500		2500	-		1500	1200		006		700		200		300		8	1
CEILING	E	NO CEILING	٧١ ع	V 76	11		71			٨١				٨١	AI es		VI VI	. 1		٨	٨١		Al			۸۱	Al	AI			AI /	

2

*

*

AI

7

۲ ۸۱

¥ 2%

M Al

4

N Al

4

2

(FEET)

NO CEILING

Y 1400 12000

0

900

4500 4000 4000

3000

2000

AIAI

1500

ALAI

120

ALAI

88

AIAI

88

ALAI

AIAI

88

ALAI

VISIBILITY (STATUTE MILES)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

5703 CEILING VERSUS VISIBILITY

0 VI VI 2 5/16

NAVWEASERVCOM





0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)	N N N N N N N N N N N N N N N N N N N	74.7 74.7 74.7			0 0000 0000 0000 0000 0000 0000	-7 80.7 60.7 60.7 G	.0 82.0 82.0 82.0 82.0 82.0 82.0 8	.7 82.7 82.7 82.7 82.7 82.7 82.7 8	.7 82.7 82.7 82.7 82.7 8	.3 83.3 83.3 8	84.0 6	84.0 84.0 84.0 84.0 84.0 84.0 84.0	.7 84.7 84.7 84.7 84.	. N 85. N 85. N 85. N	.7 86.7 86.7 86.7 86.	.3 87.3 67.3 67.3 6	.7 88.7 88.7 88.7 88.	9.3 89.3	T 94.7 94.7 94.7 94.7	. 3 95.3 95.3 95.3 9	0.86 0.86 0.86 0.86 0.	. 3 99.3 99.3 99.3 99.3	9.3 99.3 99.3 99.3 99.3	M	9.3 99.3 99.3 99.3 99.3	10.0010.0100.0100.0100.00	00.0100.0100.0100.0100.0100.0100.01	00.0100.0100.0100.010	00.0100.0100.0100.0100.0100.0100.0	00.0100.0100.0100.0100.010	0.0010.0010.0010.0010.0010.0010.00	00.0010.0010.0010.0010.0010.0010.0010.001
	5/16	74.7					82.0 82	82.7 82	82.7 82	83.3 83	84.0 84	84.0 84	84.7 84	85.3 89	86.7 86	87.3 87	88.7 88	6.0	94.7 94	5.3	The state of	99.3 99	99.3 99	99.3 99	99.3 99	00.00	00.01	0.01	d	0.0		1000
	26.00					000	82.0	82.7	82.7	83.3	84.0						-				-			M. 66		8	00				3	•
		45	5		200	9	92.	•		•	84.0	84.0	8	8	-	•		89.3	94.7	95.	98.	99.3	99.3	11.3	66	100	100.	100	9	100		3
		25	3		100					83.3	84.0	94.0	84.7		3	87.3		89.3	1 94.		98.		_			100	100.	100	100	100	200	•
ILES)	Ā	74.		000	200	8	0 82.6	7 82.	7 82.	3 83.3	86.1	94.6	7 84.	88.1	7 86.		7 88.				98.	99.	99.	€ 66	3 99.	100.	100.	100.	100.	100	-007	9
STATUTE M					*00				7 82.				84.			87.			94.		98.	99.	3	1			100		100.	000	9	
ISIBILITY (VI %	7	\$	5		•	9	7 82.	7 82.	3 83.	0 84.	0 84.	86.	₹ 85.	7 86.	3 87.	7 88.	3 89.	-	3 95.	-	3 60		.66 E	99.	0100	-	0100.	0100.	-		0100
	1 A	7 76.	•	9	2	7 80.	0 82.	7 82.	7 85.	9 83.	0 84.	0 84.	7 84.	3 85.	7 86.	3 87.	7 82.	3 89.	7 94.	3 95.	0 98.	3 99.	3 99.	. 99·	3 99.	0100.		0100.	0100	4	ġ.	0010
	1 2%	7.0		500	0	00	0 62.	7 82.	7 85	3 83	0 84.	.0 84	7 84.	3 85.	7 86.	3 87.	7 88.		100	.3 95.	•	.3 99.		.3 99.	.3 99.	0100	0100	0100	0100	000		0010
	AI .	2	ľ	2 0		00	0 82	.7 82.	.7 62	.3 83	.0 84	.0 84.	.7 84.	.3 85	7 86	.3 87	7 88	.3 89	.7 96.	.3 95	.0 98	.3 99	.3 99	·3 99	.3 99.	.0100	-	.0100	.0100	0100	9:	0010
	1 1	72.	9	5	9	F.	9	1	-			.0 84		.3 85	-7 BA	.3 67	.7 18	·3 89	.7 94	.3 95	.0 98	·3 99	.3 99	·3 8		.0100	0	10.	10.	010	9	0010
	AI •	200		3	90	0,	200		0.0	TOTAL	10 00	1.3 64	-0 84	4 85		1	1.0 83	1.7 89	-0 94	+						1.7100		1.7100	1.7100		1011	1.7100
	2	2.4			7.8.7	7.3 80	1000	1.7 62	1 6	1.7 09		9.3 83	0.1 64		0.7 86		-	2.7 88		0		1		8.7	1.7	8.7 98	-	10.7 91	1.7 9	9.7	-	8.7 91
CEILING	۸۱ ۱			16000		14000	000	00001	000	900	7000	000	3000		4000	3500		290 0052		1800 6	900	1200 68		900	900	700 66		9 005	900	300	+	8
15	E	NO CEILING	1	1 1 1		1	٨١	N N			À		٨١		AI	٨١	370	Al		AI	1000		٨١	Al	AI	Al	AI	Al	٨١	ALA	1	۸۱

JAN 68

5703 CEILING VERSUS VISIBILITY

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

Al 2 5/16 2 *

~

7 1%

7 7

م ۱۸

2 2%

M Al

4

12

4

2

(FEET)

NO CEILING

Y 2000

VISIBILITY (STATUTE MILES)

0 Al

% Al

0

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

VI VI 00091 00091

Y 1400

88

AI AI

8.

AI AI

88

AI AI

8000 7000

AIAI

38

ALAI

98

ALAL

3900

...

2000

AI AI

1500

ALAL

1200

ALAL

88

AI AI

88

AI AI

The second secon

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CELLING 59.4 68.9 68.9 68.9 68.9 68.9 68.9 68.9 68.9	CEILING							VIS	SIBILITY (ST	VISIBILITY (STATUTE MILES)	ES						
CHILLIAGO 56.4 68.6 68.9 68.9 68.9 68.9 68.9 68.9 68.9	(FEE)		N 1 40 CO NO.	41							<u></u>	% Al	* AI	Z AI	≥ 5/16	VI X	0 Al
19000 56,6 73,3 73,4 73,4 73,4 73,4 73,4 73,4 73,4	40 CEILING		68.	68.9	68.9	68.9	100000000000000000000000000000000000000	68.9	100	100000000000000000000000000000000000000	68.9	68.8	68.9	68.9	99.	68.9	68.
10000 59.2 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3		9	73.	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.6	73.4	73.	73.4	73.
10000 58.3 76.4 76.5		AND AND	25	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	7.5	74.3	2.5
2000 59.5 77.5 77.6 77.6 77.6 77.6 77.6 77.6 77		58.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.	76.3	76.
2000 39.8 77.9 78.0 78.0 78.0 78.0 78.0 78.0 78.0 78.0		59.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.8	77.6	77.	77.6	7.
2300 65.3 82.9 83.1 83.1 83.1 83.1 83.1 83.1 83.1 83.1		59.8	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.
3500 63.3 82.9 83.1 83.1 83.1 83.1 83.1 83.1 83.1 83.1		THE PERSON NAMED IN	81.5	80.3	80.3	80.3	THE RESERVE OF THE PARTY OF THE	80.3	80.3	80.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80.3	80.3	80.3	80.	80.3	80.
2500 65.2 85.9 86.1 86.1 86.1 86.1 86.1 86.1 86.1 86.1		William States	82.9	83.1	83.1	83.1	83.1		83.1	83.1	83.1	83.1	83.1	83.1	83.	83.1	83.
1300 69.2 94.8 91.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0			85.9	86.1	•	6.				98	A CAMPAGE LINES	86.1	86.1	86.1	86.1	86.1	86.
1000 69.4 96.6 97.2 97.3 97.3 97.3 97.3 97.3 97.3 97.3 97.3		200 miles 200	90.0						-i m	3.5	-:				000	000	91.
200 69.7 97.8 98.4 98.5 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7			90.00	96.2	idri	9 6 6				94.0	94.6	96.6	96.	96.0	96.	96.4	96.
300 69.7 98.3 99.0 99.5 99.7 99.7 99.8 99.9 99.9100.01. 300 69.7 98.3 99.0 99.5 99.7 99.7 99.8 99.9 99.9100.01. 300 69.7 98.3 99.0 99.5 99.7 99.7 99.8 99.9 99.9100.01.				9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	98.6	9 8 6			200		98.1	98.1			98.	98.1	
10. CO. 1 98. 2 99.0 9. 5 99.7 99.7 99.8 99.9 99.01		000	900	355	99.5	99.7	200	2000	0.00		STATE OF THE PARTY NAMED IN	100.0	0000			900	900
69.7 68.2 99.0 69.5 99.7 99.7 99.8 99.9 99.0100.01	91 VI VI 0	69.7		99.0	99.5	99.7	99.7	99.8		0.00	100	00	100.0	100.0	900	100	900

0

0

0

0

0

0

0

0

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

0

NAVWEASERVCOM

(3)

HOURS (LS.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING VERSUS VISIBILITY

	0 Al % Al 91/5 Al	2 68.2 68.2 68.	****		171.4 71.4 71.	72.1 72.1 72.	1 72.1 72.1 72.	72.1 72.1 72.	72.7 72.7 72.	72.7 72.7 72.	1 72.7 72.7 72.	1 72.7 72.7 72.	1 73.4 73.4 73.	73.4 73.4 73.	13.4 73.4 73.	73.4 73.4 73.	74.0 74.0 74.	76.0 76.0 76.	9	79.2 79.3 79.	85.1 85.1 85.	7.7 87.7	89.6 89.6	0.0	95.5 95.5 95.	1 98.7 98.7 98.	4.66 4.	99.4 99.4 99.	. 99.4 99.4 99.	100.0100.0100.	
	% Al	.2 68.	1		.4 71.	.1 72.	.1 72.1	.1 72.	.7 72.7	.7 72.	.7 72.7	.7 72.	.4 73.	.4 73.	.4 73.4	.4 73.	.0 74.0	-0		.2	.1 8	.7 87.	.6 89.	.06 6.	.5 95.5	.79	99.4		.4 99.4	.010	200000000000000000000000000000000000000
	AI % AI	68.2 68	7 7 1	71.4 71	71.4 71	72.1 72	72.1 72	72.1 72	72.7 72	72.7 72	72.7 72	72.7 72	73.4 73	73.4 73	73.4 73	73.4 73	74.0 74	76.0 76	- 0.			87.7 87	.0	6	95.5 95	8.7 9	99.4 99	9.6	99.4 99	00.0100	
NLES)	ÃI	2.89.2	1	4	4 71.4	1 72.1	1 72.1	1 72.1	7 72.7	7 72.7	7 72.7	7 72.7	13.4	73.4	4 73.4	73.4	0 74.0	76.0	9.92 9	7	1 85.1	7 87.7	9.68 9	6.06 6	0	98.		1.00	4.66	0100.01	
VISIBILITY (STATUTE MILES)	% A	.2 68.2		7	*	1 72.	.1 72.	1 22	.7 72.7	7 72	.7 72.7	7 72.	.4 73.	6 73.	4 73.	4 73.	0 74.0				.1 85.	7 87.	89.	-	3	98	4 99.4	4 99.	.4 99.	0100	
VISIBILITY	2 2 1%	8.2 68	-	1	12 45	2-1 72	2.1 72.	2.1 72.	2.7 72.	1.7 72.	2.7 72.	7 72	1.4 73.	2.4 73	1.4 73.	73	4.0 74.	.0 76		0.2 79	5.1 85.	7.7 87.			5.5 95.		99	00 7.0	1.4 99.	0010	
	> 2%	68.2		4 7	71.4 7	72.1 7	72.1 7	72.1 7	72.7 7	72.7 7.	72.7 7	72.7 7.	73.4 7	73.4 7:	73.4 7	73.4 7.	74.0 7.	76.0 74	.6 7	7	85.1 8	7 8	8	0	95.5 9	8.7 9	4	0.40		00.0100	
	S AI	68.2	4 4	11.	71.4	72.1	72.1	72.1	72.7	72.7	72.7	72.7	73.4	73.4	73.4	73.4		76.0		79.2	85.1	87.7	9-68	90.	0	98	1.66	•	4.66	100001	The state of the s
	71	.2 68.2	1	7 16	4 71.4	1 72.1	.1 72.1	1 72-1	.7 72.7	7 72.	.7 72.7	7 72.7	4 73.4	4 73.4	4 73.4	4 73.4	0.47	0 76.0	6 76.6	.2 79.2	.1 65.1	7 87.7		90.9	.5 95.5		4.66 4.	4 99.4	1.66 1.	0100.0	ACTION OF THE PARTY OF THE PART
	9 4	68.2 68			1.4 71.	72.1 72.	2.1 72.	2-1 72.	2.7 72.		2.7 72.	2.7 72.	3.4 73.	3.4 73.	3.4 73.	3.4 73.	20000	6.0 76.	2006		5.1 85.			0.0 90.	3.5	8.99	9.4 99.	9.4 99.	9.4 99.	.4100.	
	A1 02 A1		4000	Ė	*	9	61.0 7	9	Total S	1		30	m	-	a	6	63.0 74	0	3	0		4	7	7.7	0	3	74.0 9	g.	74.0 9	1	
CEILING		NO CEILING		> 16000	N 14000		0000	Service Bay	000	3	000		7 4800		> 3500		> 2500	25	1800		1200		88	8	78	8	98 1		8		

0

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS L'S T.

7.1
0
0
9 5
5
W. R.
5
.56
0.0
0
9
9
7 6.0
7 80
04
0
9
0100
0.010
000

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

0

Y 1 400

N N 8

0

200

0

38

(FEET)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

* * 91.6 ٨١ VISIBILITY (STATUTE MILES) 20 C. 0 ۸I 7 2% AI Al N Al

2500

1500

()

98

0

88

88

88

88

3000

TOTAL NUMBER OF OBSERVATIONS

REBER

5703

0

0

0

0

0

CEILING VERSUS VISIBILITY

0 100.0100.0100.0100.0100.0100.0100.0100.0100. .00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100. 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 N N 2 5/16 22 96.8 ٨i W NI 80.0 80.0 91.0 82.6 98.1 98.1 VISIBILITY (STATUTE MILES) 82.0 85.8 96.8 7 1% 7 12 ۸I 1 2% W Al 4 N AI 67.1 64.3 65.2 NO CEILING VI VI 00091 98 98 4500 400 400 400 400 2900 80 (FEET) VIV 12000 900 3500 1500 120 88 88 80 88 88

JAN 68

TOTAL NUMBER OF OBSERVATIONS

0

TOTAL NUMBER OF OBSERVATIONS

0

1

0

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING VERSUS VISIBILITY

			-						_								~	_		-	-	-	-	_		-
	0	35.6			88	18.	9	0	90	3	92.	2	76		ŀ	96.	98	99.	9	88	00	00	8	900	900	99
							1						٠				1	10	3	3			-	32	£	99
	74	3.	-			9.4	3	4	-	3	-		7		r	9	3	3	3				3			33
	Al	80 0	00	× ×	8	8	8	000	8	0	6	9	2	0	6	6	3	2	ğ		ŏ	ğ		Š		29
	•		7	7	-	*	91	- 60		9	-	7		44	F		7	*	9	0	0	9	0	3	20	00
	2 5/16	80	87	3 2	88	88	80	9 6	8	3	26	25	20	10	96	96	86	6		88	8	8	8	8	90	88
	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		-	-	-	3	01	- [4	~		m	P (40	7	-	8	-	-	3	56	10	5	5	3	36	55
	Z Al	-	-	1	8		0		0	4	?	2	77		9	.96	8		d	0 9	0	0	0	_	6	og
	۸,				Ļ			. 6	-	5	•	5		0	-	6		-	3	25	12	3	3		33	23
	*	30		c (K	*		3.		0.3	3	2				r	9 . 9	3	:	3	0 0			•		• •	9.0
	Al	-		9 0		2	8	6 6	~	9	6	9	2 9	0	6		5	ŏ	9	ğ	ŏ	ŏ			99	29
		æ -	7	7			di	- ("		4	m 1	7	7.0	1	E		7		9	90	0	9	0	9	9 0	00
	AI X	8 4	87	3 2	88	88	9	200	8	3	26	25	76	10	96	96	98	60	8	88	8		8	9	39	88
			-	-		*	0	- 60	-	-	M		m (4	-		-	3	3	35	12	7	3	3	3 3	33
VISIBILITY (STATUTE MILES)	Ā	in	-	+		8.	9		0	4	2	2	2		E	. 9			9	0	0				o d	00
				200			1	00	0	2	0	9	9 (10	. 6	6	9	0	3	25	2	E	2	9:	99	22
	7	-	:	1			3	d		3	2.3	7			ŧ	.8	3	4.	3			*		3		000
	Al			2 2		88	2	0 0	9	0	6	6	2 6	Ö	9.6	96	8	6	3	000	8	ĕ			ğğ	88
	¥1 Y		-	4	-	*	d		24	4		4		1	5		7	*	9	0	0	E	0	9	9 9	00
		20	2	2:		98	2	200	2	2	92	25	26		9	96	8	6	9	88	8	9	8		9 9	00
					- 4	*	0	- 7	-	0	m	4	M (10	-	-	-	-	성	57	170	E	3	3	910	35
	N Al		:	4	-	:	3	:	ò			4			Ŧ		3		3		ċ			8	000	00
	<u></u>	60 0	00	~		8	1	0 0	0	9	0	9	0 6	0	0	6	9	0	3	25	2	E	2	9	36	23
	21/2	-			•		3			3					*	6.6	3	3	3	0 9	18	*		3	0.0	33
	Al	-		9		3	3	00	90	0	0	0		0	9	•	6	ŏ	ğ	ğ	100		Marie Marie	Ĕ	ğğ	89
			7	7	-	*	9	-	m	9	~	7	9 0	40	5		7	*	9	0.0	0	E	0	9	9 9	00
	AI 3	8	87	12	3	88	2	0 0	8	3	2	25	25	1	96	96	86	66	8	88	8	8			000	00
		40 -	1	-	-	4	0	- 6	m	-0	m	-	7 (Va	,-	8	N	4	3	55	10	5	3		3 3	80
	AI	-		+		8.	0		0		:	2			E				å	0	0	d	100 400 h		6 9	èè
				80 0		8	7	00	6	6	6	7	5 (10		6	7	0	3	23	E	£	2	i.	22	23
	2	8	13	3	*		3	4				3			r		3		3			*				33
	Al		87	20 a		8	8	6 6	8	6	6	9	7	0	9	6	9	6	ĕ	23	ĕ	100	0	ğ	9 9	100
		100			100	-		-		Market Co.					4 Sheep				100							
	Al	5	8.7	2 :		88	2	20	2	3	20	2	25	1	90	96	86	66	6	900	5	99.	4.6		90.	66
																						-	M	7 (20 00	
	2			1.	-	.2	2		:	-		4.		0 a			4	:	1	: -	1.	E	4.	4.	::	81.3
	AI	01	1		-	1	-		-	7	-	7	-1	1	•	•	8	8	20	00 Q	00	9	00 0	9 0	0 00	80 40
0		S S	29	9	2	20	2	20	9	2	90	2	20		2	9	2	2	2	88	9	909	900		22	80
CEILING	FEET	NO CEILING	18000		12000	900	COS (1875)	88	909	8	954	1	3000	250	2000	1800	25	1200	-	X 2	2	3	24		28	2
2	•	2 1	AIA			AI /	11	AI AI	Al	Al	AI/	NI .	AI A	1	IAI	Al	Al	Al	AI	AI AI	Al	AI	AIA	1	IAIA	MAI
		-		-	-	-	-	-			-	_	-	_	-	_	_	-	_	-	-	-	-	_	-	

PERCENTAGE FREQUENCY OF OCCURRENCE

ALAMEDA, CALIFORNIA

0

(FROM HOURLY OBSERVATIONS)

0 Al

5703 CEILING VERSUS VISIBILITY **JAN 68**

155

TOTAL NUMBER OF OBSERVATIONS

100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100. 100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100. AI 96.8 2 5/16 98. 98. 96.8 22 1A 95.5 96.8 96.8 100.0100.0100.0100.0100.0100.0100.0 Al * N 95.5 96.8 96.8 _ AI VISIBILITY (STATUTE MILES) 96.8 96.8 96.8 7 7 100.0100.0100.0100.0100.01 AI 7 2% N Al **VI** N Al 11 2 NO CEILING VI VI 00091 80 (FEET) Y 1 Y 1200 VIVI 800 800 800 200 989 3900 2000 1500 > 20000 9 9 9 9 120 88 88 88 88 AI AI AIAI AI AI AIAI AIAI ALAI AI AI AIAI

0

ALAI

0

(

		ě.		
ē	9	7		
M		٠		
į.	C	s		
۱	e	š		

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS TUS T.

0

CEILING							N.	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	5 Y	9 11	\$ 2	4 1	e VI	N 2 1/4	K 2	¥1 Y	¥1 Y	Ä	X Al	* 1	N %	\$ 5/16	VI N	AI
NO CEILING	10 C 10 C	84	81.3		10 - A	81.	81.	91.	81.	81.	81.	81.	81.	3 81.3		81.
≥ 18000 ≥ 16000	ACCUSATION AND ADDRESS.	9 6	85.2	85.2	85.2	85.		85.		85.	85.2	85.2	85.		85.2	. 4
Y 14000 Y 12000	The second second	8.5	85.8		4 100	85.8	85.	8		86.1	85.	85.	8 6	85.8		8
VI VI 0000 0000	20.00	88	86.5	86.5	86.5		00 O	86.		86.9	86.5			8	86.5	
≥ 8000 ≥ 7000	62.6	87.7	***	88.4	::	• • •	88.	88.	88.4	88		88	8 8	88	88	88.
9000 AIAI		67	88.4	88.4	88.4					88.4	800	8 8	88	88	88	8 8
1 A 4500	COLUMN TO SERVICE STATE OF THE PARTY OF THE	88	89.0			89.	89.	89.	89.	89.	89.	89.	89.	89.0	89.0	
N 3000	THE RESERVE	89	89.7			89.	@ 0	89.		89.	60		99.	80		80
Y 2500	\$1,000 May 10	89.	90.3			90.	90.	.06	90.	90.	90.	90.	90	90.3	90.3	
Y Y 1800 1500	10.00	50	91.6	91.6	91.0	91.6	9.1.		91.	91.		91.	91.	7		00
≥ 1200 ≥ 1000	ACCUSATION.	920	92.9			93.	93.	93.		93.	93.		63	00	93.6	
N %0	E3. V 22. V		95.5			96.	00	96	96.	00	96.1		96			96
8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1000	96	97.4	98.1		98.1		100	100	98.	1 98.1	-	100	1 98.1		00
98		88	98.7	4.00		00	0	100.0	000	100	100	100	100	-	-	22
1717			98.7	4.66		00	100.0		100.0	100	23	100	100	-	100	Company of the control of
	100 100 100 100	9.8	98.7	99.4	99.4	99.4		66	100	100	100	100	-	100.0	100	22
The state of the s				South Sansan	No. of Concession	2						-	1			

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

5703

NO CEILING NO	v v v v v v v v v v v v v v v v v v v	2 22222111222222222	" 545451515555555 " 545451515555555	2 22222111222222	V 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 4	1 2424 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	V V V V V V V V V V V V V V V V V V V		v	* 2000011100000	v	V 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	V 555551115688866	v 255 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
CEILING 20000 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5-4-4-4-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-	시간 사람들은 경험에 가지 않는 다른 것이 있다. 시간 사람들은 경기를 가면서 사람들은 전환 시간에 대한다면 함께 되었다. (2012)		2424212122222	0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0		040001118888000		2454511158886666	************				7700011110000
18000 16000 16000 16000 16000 16000 1800 18	24499900000000000			22212122222				00011188888000		555177500000000	*********		24211188886		7451717
16000 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	44000000000000000			42777282828	401110000000		A A A A A A A A A A A A A	45777 888 8 5 6 6		40111000000			40111000000		101111111111111111111111111111111111111
12000 63. 12000 63. 12000 64. 12000 64. 1200 64. 1300 65. 1300 65. 1300 65.	400000000000000	[17] T. S.	-4445454566		-44-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-			100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0177 5 8 8 7 7 7 7 7 6 7 6 7 6 7 6 7 6 7 6 7 6	44444444444444444444444444444444444444		7777777		511166666
17000 10000			44444444	444555555	44444444	444444444	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			177 5 5 5 5 5 5 5	*******		777777		1112222
1000 2000			*******	*****		11 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8					717777		F F 8 8 8 8 6		F 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2300 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			45555555	4555555	4	100000000	100000000			70000000	1000000		100000		12222
2300 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			FREE 555	**************************************	PEPP 4 4 4 4		FFFF 4 3			0000000	200000		10000		2222
2300 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			######################################	25255	200000 4-1-4-4-4		000000			000000	6666		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2220
2300 65 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			FFFFF				56000			0000	2000		100		22.55
2300 65 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			2444	2222	5555		2000			0000	79.		79.		555
2300 65. 2300 65. 2300 65. 2300 65. 1800 66.	~~~		1110	111	4.01	4.07	79.4			000	79.		79.		79.4
2300 655 2300 655 2300 655 2300 655 2300 655 2300 655	N N M M	THE RESERVE OF THE PERSON NAMED IN	120	10.4	44.0	79.4	10.0			00	4 79.		-		79.
3300 65. 3000 65. 2300 65. 1800 66.	N 00 00	The second second	79.4	19.4	4.61		7 04			0			17.	F 20 T T	
2500 65. 2500 65.	-		80.0	-							4 79.	4 79.4		19.4	79.4
2000 65. 2000 65. 1800 66.	-	۱		80.0	200	80.0	80.0	80.0	80.0			0 80.0	80.0	90.0	80.0
1800 65			80.0	90.08	80.0	80.0	80.0	80.0	80.0	80.	0 80	80.	0 80.0	0.08 0	80.0
1300 67	-	2000	80.0	80.0	0	à	80.0	0	80.0	80.	80.			0	80.0
1300 67	-		81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.	3 81.	AC. 2	3 81.	8 81.3	81.3
	2		83.2	83.2	83.2	83.2	83.2		83.2	83.		2 63.			83.2
2 1200 69.	-		85.8	85.8	85.8	85.8	85.8	85.8	85.6	85.1	8 85.	8 85.8	8 85.1	8 85.8	85.8
1000	-		91.0	91.0	91.0	91.0		-	91.0	-	-	91.0	91.6	91.0	91.0
8 A	-		2.16	94.2	94.2	2.46	:	94.2	94.2	94.	2 94.	2 94.2	2 94.	2.46	24.5
72.	-			8.96	96.8	96.8	3	3	96.8	96	96	96	96.	96.8	
700 72.	-		98.7	48.7	7.86		98.7	98.7	98.7	98.	7 98.	7 98.	7 98.	1 98.7	98.7
400 72.	-	100	\$3.6	40.66	4.66	90.6	4.66	99.4	99.4	99.	4 99.	4 99.	. 66	7 66 7	99.4
2 500 72.	-	99.4	0.00	0.00	100.001	0000	00.00	0000	.00	100	100	100	0100.0	0	100.0
400 72.	-	99.4	0.00	00.0	0.0	0.00	00.00	0.0	100.0	100.	00	100.	00	9	100.0
300 72	00		10.00	00.00	000	10.00	000	00	100.0	100	100	0010	100	0100	100
100 72.	-	99.4	0.00	0.00	0.0	0.0	0.00	0.0	00	100	00	100	00		ŏ
72.	0	99.4	0.0	00.0	10.0	0.0	00.00	0000	00	10	00	10	00	100	00.0

CEILING VERSUS VISIBILITY JAN 68

NAVWEASERVCOM

•

t

TOTAL NUMBER OF OBSERVATIONS

0

0 0 0

٥ ٨

٨١

× N

AI

14

¥ 2%

AI

AI

1

Al

(FEET)

VISIBILITY (STATUTE MILES)

CEILING VERSUS VISIBILITY

٨١

80.6

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

0

VI VI 00091 14000

Y 1 400

900

200

2000

450 450 450

3500

0

0

2000

ALAI

1500

1200

88

ALAI

88

AIAI

58

ALAI

80

AI AI

=

HOURS (CS. T.)

-

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALAMEDA, CALIFORNIA

000

0

CEILING							5	VISIBILITY (STATUTE MILES)	TATUTE MI	LES)						
(FE)	5	9 11	8 11	VI	۸۱	2 2%	7	V1 V2	¥1 Y	Ä	% AI	* 1	VI %	≥ 5/16	VI %	٨١
NO CEILING		57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.
2 2000			59.3	59.3	1 89.3	59.3	59.3	59.3	59.3	50.3		59.3	59.3	59.3	59.3	59.
7 18000	49.3		59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.
			59.3	59.3	1 59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.
			60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	1 60.7	60.7	60.7	7 60.7	60.7	60
≥ 12000		- 3	60.7	60.7	60.7		60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.
1000	30		60.7	60.7	1 60.7	60.7	60.7	7.09 /	60.7	60.7	60.7	60.7	60.7	1 60.7	60.7	-09
000 1		3	60.7	60.7	1 60.7	60.7	60.7			1 500	60.7		60.7		60.7	
(20)			61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	
> 7000	3		61.3	61.	61.3	61.3	611.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.
0009 AI		61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61,3	61.3	61.3	61.3	61.
1000			61.3	61.3	61.3	61.3	61	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.
> 4500	50.7		61.3	61.3	61.3	61.3	61.3	61.3	61.3	61,3	61.3	61.3	61.3	61.3	61.3	61.
1330			61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.
> 3500	52.0	62.7	62.7	62.7	62.7	62.	62.7	62.7	62.7	62.	62.7	62.7	62.7	62.7	62.7	62.
	52.0	62.7	62.7	62.	62.	62.	6207	62.7	62.7	62.	62.7	62.7	62.7	62.7	62.7	62.
≥ 2500			62.7	62.	62.7	62.7	62.7	7 62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.
530			64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	0.49	64.0	.40
V 1800	52.7	64.7	64.7	64.	64.7	64.7	64.	1 54.7	64.7	64.7	64.7	64.7	64.7	1 64.7	64.7	.49
- 1			69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69
N 1200			74.7	74.7	74.7		-	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.
			80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0		80.0	80.
8	62.7		83.3	83.3	83.3	83.3	83.3	83.3	83.3		83.3	83.3	83.3	83.3	83.3	83.
		88.7	88.7	88.7	58.7	88.7	88.7	7 88.7	88.7	88.7	88.7		88.	88.7		88.
82	R 25.00		91.3		191.3		0		91.3	91.3	91.3	91.3	91.3		91.3	
000	66.0	93.3	93.3	93.3	93.3	63.3	93.3	93.3	93.3	93.3	63.3	93.3	93.3	93.3	93.3	93.
2005	10000		98.7		0	7.86	98.7	7 98.7	98.7	98.7	7.86		98.7	98.7	7.86	.86
	66.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	66.3	99.3	99.3	99.3	.66
38	66.7	98.7		100.0	100.0	100.0	10	100.0	100.0	100.0	0.00	TO WEEK	10	10000	100.0	100.
	66.7		99.3	100.0	100.0	0	10	100.0	•	10	100.0	100.0	100.0	1000.0	100.	-
8	66.7	98.	66.3	100.0	100.0	100.0	100.0	0.0010	100.0	100.0	10000	-	100.0	-	100.0	100
	66.7	1,23	99.3	100.	100.0	1000	1000	10000	100.0	100.0	1000.0	100.0	100.0	10000	100.0	100.

(6)

0

0

0

TOTAL NUMBER OF OBSERVATIONS

0

NAVWEASERVCOM

(6)

TOTAL NUMBER OF OBSERVATIONS

зилон	
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)	VISIBILITY (STATUTE MILES)

CEILING VERSUS VISIBILITY

CEILING								VISIA	VISIBILITY (STATUTE MILES)	TATUTE	MILES)									
Teen .	5 7	٥ ٨١	AI AI	AI .	AI .	AI	21%	~ Al	71 72	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*	-	AI	AI	*	2 1	1 5/1	41	2	A!
NO CEILING		52.7	52.	7 52.	7 52.	7 52		52.7	52.7	52	F. 0	2.7	52.	7 52	F. 0	52.7	52	200	2.7	52.
18000	45.3	54.	54.	54:	7 54.	7 54		54.7	54.7	54	37		54.	7 54		54.7	54	1 5	1.4	54
		3	3	*	7 54	5	7	54.7	*		7	+	•	5	-	24.7	2	-	7	1
12000	-	54.	34:	54.	7 54.	7 54	F. 1	24.7	54.7	30	7	F . 5	54:	1 54	-	54.7	54	50		34
	0.00	2	2		1	n "	7	•	1	7 "	4	+		2			2 4	4		
88	•	2000	*6	200	0 0	200	00	200	•		3 6	3 6	56.	1 80	3 0	200	200	2 6	9	4
9000	46.7	56.	56.	7 56.	7 56.		F	36.7	56.7	2	50	6.9	56.	1 56		56.7	56	10.		36
1 60	*		9 5	"	2 2	7 20	-	2	0 0	4 8	7	-		4		. 1	2 40	9"	0 0	9
2000		26	86) R	200	7 86		1	86.7	56	7		M 3	, 60		A .	26	2		86
0007 AI AI	6.2	57.3	57.	57.	57.	57	00 0	. •.	57.3	-	40			15 E	mr	57.3	52	W 4	6.7	57
		58.	Ber Ball	58.	58.	7 58		58.7			10			10	-				8.7	58
300		58.	-000	7 58.	7 58.	7 58	-			-	7	8.7	58.		-		58	5	8.1	3.6
200		58.1	00 0	80	P. C.	200		58.7	2.00	w =	500	200	58	7 58	-	200	80 8	-		20
1800		60	60		7	7 60	1			0			60	7 60	-		60	10	1	
1500		66.	90	3		90	0			99		0	64.	9	9		99	9	0.40	3
1200		72.0	72.		4	7		72.0	2	1	1	2.0	72.		0	3	72		2.0	72
98		78.0	78.	78.	0 78.	0 78	9			1	9		8	-	0	8		7		78
88	0000	82.0	82.	82.	982	9 6 2 8 2 8 2 8 8 8 8 8	0,0	82.0	82.0	8 8	00	2.0	82	9 8 8 8 8 8 8 8 8 8 8 8 8	0.5	82.0	8 8	000	200	825
700	60.0	90.0	90	90.		0	0		0	0		6	0	0	0	0	90			
909	61.3	94.6	94.	94.	96 0	0 94	0		. 4	9	0			0			94	9	-	
905 3	61.3	97.1	97.	.76	3 97.	6		7.		0			7.			7.	97		E-16	97.
8	61.3	99.	99.	100.	9	10	9		d	2	-			10	.01	0	100	010		100
88		99.3	99	3100.	0010	0100	86	0	000	98	-	00	00	0100	500		100	900	00	000
80	-	99.	1000000	100	0100	010	<u>ö</u>	00.00	00.0	001	070	0.0	0	-	10.	00.0	100	070	0.0	
-		•			-					ì			170000			-	,	-		

NAVWEASERVCOM

0

AI

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

				PERCE.	(FROM	E FREQUE HOURLY		NCY OF OCCUR	OCCU	RRENC S)	w				ž
CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)					
(FEE)	S VI	AI	S AI	1	e Al	2 2%	14	71 71	VI 21	ĀI	× AI	*	S AI	2 5/16	A1
NO CEILING		0.00	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	40	40	3.3
00091 VI VI 000000000000000000000000000000000	36.7		49.3	49.3	49.3	49.3	49.3	6.0	6.0	6.04	49.3	40.00	00	6 0	*
V 14000	39.3	40.3	50.0		50.0	54.0	50.0	3.5	50.0	20			50.0	50.0	22
900 1 Al Al	The real of	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	24.7	54.7	20
71 VI	SECONDO.	34.0	54.7	54.7	34.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	24.	54.	30
9 9 9 AI AI	45.0	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	24.7	54.	20
44 45 60 60 60 60 60 60 60 60 60 60 60 60 60	SOUR PROPERTY.	54.7	55.3	55.3	55.3	25.20	10 to	88.3	55.3	20 AU	55.3	55.3	55.3	55.3	20 50
3000	STATE OF THE PARTY.		55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.9	55.3	55.3	55.3	55.3	8
7 200	ALC: UNKNOWN			56.0	1,000	56.0	1000	36.0		56.0		56.0	58.0	56.0	
91 VI VI 98 VI VI	DOM: NO	98.0	58.7	58.7	58.7		98.	58.	58.7	8.0		0 10	58.7		
VI VI 000 000		72.7		74.0	74.0	74.0	74.0	34.0	**	74.0	74.0	74.0	2.5	74.0	7 0
8 8 AI AI		86.7	90.7	88.0		8.	88.	86.	88.0	88.		91.3	91.3	91.3	
VIVI 88	52.7	88.7			93.3		93.	99.	93.3	93.	60	93.3	93.3	93.3	00
VIVI 88		92.7	99.3	99.3	100.0	100.0	99.3	100.0	100.0		100.0		100.0		00
88		93.3	6.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	100	100.0	25
	4 .	93.3	90.3	100.0	0	100.0		100	100.0			100	00	100	2

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

۰ ۸۱

2

(FEET)

NO CEILING

VI VIVI 2000 1800 0005 1

0

200

9000

AI AI

4500

AI AI

3000

MIM

2000

AI AI

1500

AI AI

1200

AIAI

88

ALAI

88

ALAI

88

MAIA

80

88

ALAI

CEILING VERSUS VISIBILITY

3079

1234-1876

5703 CEILING VERSUS VISIBILITY JAN 68

0 0

=

0 N N 2 5/16 22 * % Al _ ^I VISIBILITY (STATUTE MILES) 7 7 7 7 ۲ ۸۱ 2 2% e Al VI 4 10

NAWEAGEDUCOM

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (FS.T.)

2.0 62.0 82.0 82.0 6.7 84.7 84.7 84.	86.7	.7 88.7 8	90.1	-	90.7 90.		r.	m 0	00	96 00	0100	0100	10	0100	
.0 62.0 82.	86.78	8.	-	7 90.7	700.7	7.06	7.00	M 0			99	00	00	00	80
962.0	86.78	8.	-	90	90.	90	00					. Oz .			
.0 62.0	86.7	8.	-	00	00	0.0	Development	-N		96	00	00	00	00	00
.0 62.	86.	8.	-		_		00	100	00	100	22	010	22	-1-	22
01	8 8								0.		00	00	00	00	00
- •a .		1	000	80	90	90	90	92	92	96	88	80	88	00	88
20	Kale Pro	FF	FF	-	FF	FF	-	-	0	00	80	80	00	00	00
	0.0	8 8	00	00	00	00	00	91	22	96	80	000	000	88	00
01	FF	F F	D D	P. P.	F F	74	F K	W 0	OM	00	000	70	1	-	33
							•								
8	8 6		00	00	00	00	00			00	10	001	00	00	100
01	FF		-					W 0	0 1	00	00	00	00	00	00
82	86	88	00	00	06			16		96	88	000	88	88	88
OF		-				44		MO	0	00	-	1	55	50	56
2			00	00	00	00	00	-2	25		00	00	00	00	00
00	000	8	00	00	00			6	00	00	100	10	10	20	01
0,	.,	7.												00	
82	86	88	000	000	90	00	90	16	92	96	00	00	88	00	88
10	~	11		~		~		Janes Land	Same of	00	83	20	60	00	82
2 4	0 0	8	00	ÓÖ	00	00	00			00	00	00	00		00
	& &	-	0.0	0.0	00	00	5.6	00			-	1	-	-	22
														4. 04.	0.0
00 00	8	86		66	60	60	6	00	00		00	00	ŏĕ	ŏŏ	100
10					~			40	0	00	00	00			00
20	96	88	0	00	00		00								00
1000	-	-	-		~~					(San Jan 1997)	-	-		90	90
														The same	00
eo es	8	8	0 0	00	00	00	00	00	00	00	10			00	10
or										0.0	.0		•		00
204	86	9 6	200	200	000	00	00	91	92	96	88	88	88	88	88
10			-		-		-	m 0	01	00	88	88	80	88	53
24			00	00	00	00	00	-12	25		60	00	66	00	00
-			00	00	00	00	00	The state of the s			20	01	01	01	35
		X						0					BOOK AND DE	SCHOOL STATE	00
8		0 0	5	23	9 8	8 8	9 6	00	66	9.0	00	66	00	00	98
10	~	00	-			~	-	mc	00	00	00	00	00	00	00
	0		-		-			0.0	0 0	22	2	20	22	22	72
-			-	100		-	-	-							
N 8	88	88	88	88	88	88	88	88	88	88	88	88	88	88	80
S G										The second					
₹ AI	MAI	ALAI	VI VI	MAIN	VIVI	ALAI	MAI	ALAI	VIVI	AI AI	VIVI	VIVI	VIVI	VIVI	ALAI
	80.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	04.0 80.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	04.0 80.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	04.0 80.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	04.0 80.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	04.0 80.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	04.0 80.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	04.0 80.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	04.0 80.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	06.0 80.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	66.7 85.8 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86	68.7 88.8 86.7 86.7 86.7 86.7 86.7 86.7	66.7 85.3 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86.7	66.7 85.8 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86	66.7 85.9 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86.7

CEILING VERSUS VISIBILITY

NAVWEASERVCOM

ALAMEDA, CAL TERRAL

0

0

1

HOURS (T.)

CEILING VERSUS VISIBILITY

=

0

299999

TOTAL NUMBER OF OBSERVATIONS

٨١	80.7	t.		1	:	3	:	a		d		-	:		-	1	91.3	2	:	3	:	3	100.0	100.0	100.0	10000	
× Al	80.7		•	1	:	3		a	ò	6	-		:	1	-	-	-	2	3	5	:	-		0000	0.00	0000	-

				PERCE	(FROM	PERCENTAGE FREQUENCY (FROM HOURLY OBS	QUENC RLY O	ACY OF OCCUR	OCC ATIO	OF OCCURRENCE ERVATIONS)	ij					non	HOURS 4 CS. T
CEILING							^	VISIBILITY (STATUTE MILES)	STATUTE /	WILES)							
(FET)	2 41	AI	N AI	¥ N	N 3	2 2%	1 2	2 1%	71 7	<u> </u>	AI	*	* 1	N %	≥ 5/16	AI N	٨١
NO CEILING		000	80.7	80	80.	000	7 80.	90	90	7 80	- I		400	80.7	80	80	P.
	000	State of the later	85.3	8	85	5	8	8	88	8	- m		85.3	85.3	95	8	1 (1)
		25	87.3	2.5	87.	Ø 7.	B 87.	2 2	9 B	W W 7	0 00		87.3	87.3	87.	3 2	- m
		3	88.7	8	88	88	80	80	000	80	F .	2 0	88.7	88.7	88	8 9	-
000		. 00	90.0	0	90	90	900	000	000	00	00	. 0		90.0	.00	00	70
> 8000		9	90.7	90	90.	90.	90	7	0	6	0		90.7	90.7	90	0	FI
		2 :	20	91.	91.		9 6	9 9	9 6	0 6 M	- M		91.3	91.3		16	- 10
22.	200 3	5			6	91	6	3 6	6	6	0	-	91.3		10	6	0
VI VI 8 8 8		56	W	56	000	910	000	200		W 60	m m	M (M	B . 10	91.3	91.	16 6	00
3300		5		6	60	.10	60	60	66	60	00		91.3		91.	16	00
4 0325		Ė	1	6	91.	91.	20	5	16	6	00	m (E	91.3	25	50	m
VI V	1.00	92.7		92.	26	92.	1 92.	26	76	26		20.7	92.7		25	200	100
		2	0	6	97	97.	97.	. 20	200	0 m	- m			200	5	6	m
		9.30	100.0	100	0010	0010	0100	0010	010	0100	100	- 5	0.0	100.0	3	001	010
		900	100.0	900	0100	0000	9010	9000	900	9010	900	33	900	000	100	000	300
	VIII 200	99.3	100	35	a .	100	95	25	4		95	000	0000		-	9010	30
8		99.3	100	• -	100		4	010		0	9	9	9		100	9	3
88 AI AI		99.3	100.0	100	0010	0100	0100	0010	0100	0010	0010	99	0000	0000	100.	000	010
80			100.0	900	0100	0100	0010	0010	000	010	010	56	000	0000	100	0010	010
	•																

NAVWEASERVCOM

19

BARR

5703

CEILING VERSUS VISIBILITY

1 ٨I ≥ 5/16 Al * VISIBILITY (STATUTE MILES) 7 7 7 ۲ ۸۱ 2 2% N Al 4 ۵ ۸۱ ۰ ۸۱ 2 .00 NO CEILING 2 20000 VI VI 00081 00081 Y 1 Y 12000 2000 4500 3200 2500 1500 120 88 88 80 CEILING (FEET) VI VI 000 000 000 7000 88 88 ALAI ALAI AI AI AIAI ALAI

0

0

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF OCCURRENCE

	۱	
	۱	
	ı	
	۱	
	J	
	۱	
	Į	
	ı	
	١	
	١	
	١	
	ı	1
	ł	
	ı	
	ı	
	ı	
	ı	
	ı	
	1	
	1	
	1	
	۱	
	۱	
	ı	
	ı	
	ı	
	ı	
	ı	
	ı	
	1	
	1	
	ı	
	ı	
	1	
	ı	
	1	
	ı	
	١	
	۱	
	Į	
	۱	
	۱	
_	۱	
	ı	
5	ı	
	ı	
	۱	
-	۱	
~	۱	
	۱	
	۱	
_	ŀ	
-	۱	
	۱	
ď	ı	
•	۱	
	۱	
-	۱	
~	۱	
	ı	
	ı	
	ı	
7	ı	
S	ı	
35		
BS		
38 2		
OBS		
Y OBS		
Y OBS		
LY OBS		
RY OBS		
RLY OBS		
JRLY OBS		
URLY OBS		
URLY OBS		
OURLY OBS		
OURLY OBS	The state of the s	
HOURLY OBS		
A HOURLY OBS		
M HOURLY OBS		
M HOURLY OBS		
OM HOURLY OBS		
OM HOURLY OBS		
IOM HOURLY OBS		
ROM HOURLY OBS		
FROM HOURLY OBS		
FROM HOURLY OBS		
(FROM HOURLY OBS		
(FROM HOURLY OBSERVATIONS		
(FROM HOURLY OBS		

		0	70	1	0	17	M	7	-	7	-	7	-	7	M	7	M	7	0	7	M	7	-	9	Ó	9	O	9	0	9	o c
	NI O	2;	:	1	74	75	75.	75.	10.	36	76.	76	2	3	2	77	1	77	2	3	83	2	92.	8	8	8	907	9	8	9	88
	N ×	70.0	72	72.7	74.0	75.3	75.3	75.3	76.7	76.7	76.7	76.7	76.7	76.7	77.3	11.3	77.3	77.3	78.0	81.3	85.3	89.3	92.7	96.0	96.0	98.0	0000	00.0	000	000	000
	5/16	0.0	2	10.4	74.0	75.3	15.3	75.3	76.7	16.7	16.7	16.7	16.7	16.1	17.3	17.3	17.3	77.3	78.0	81.3	85.3	89.3	1.76	96.0	0.96	98.0	00.01	10.00	00.00		00.00
	AI %	0			0.	. 2			F . 9			-	6.1			7		. 3	0	-		6.3	2.1	9	0.9	9	0.010	.016	0.0		00
	AI	00	-	1	0 7	3	2	-	7	7 7	7	7	7	7	-	3 7	-	3	0 7	3	6	2	2	6	0	6	010	0100	010		0010
	*	5	12	72.	14.	75.	73.	73.	76.	76.	76.	76.	76.	76.	7.	110	5	77.	78.	81.	85.	89.	92.	•	96	98.	1000	100	100		1000
	% Al	70.0	200	72.7	74.0	75.3	75.3	75.3	76.7	76.7	76.7	76.7	76.7	76.7	77.3	77.3	77.3	77.3	78.0	81.3	85.3	89.3	92.7	96.0	96.0	•	00.0	00.0	00.0	00-0	000
	-	0.0	-	2	0.4	15.3	13.3	15.3	16.7	100	16.7	7	16.7		77.3	2.3	17.3	7.3	0.01	-	15.3	19.3	12.7	26.0	0.90	28.0	00.00	0.00	00.0	-	000
VISIBILITY (STATUTE MILES)	7.	0.0	000	76	0.4	5.3	B. B.	5.3	6.1	. 7	1.9	7-0	1.9		7.3		7.3		0.0	6	6.8	9.3	2.7	0.0	0.0	•	0.010	0.010	0.0	0	0.0
UTATO	ي ا	0.0	-	1	.0 7	3 7		3 7	. 7 .	7 7	1	7	1	7	- M	7	- M	7	.0.	3 8	~	3	0 1.	0	0.	0	010	010	010	010	
ISIBILITY	ŽĮ.	2;	12	12	120	2 75	3 75	25	1 20	7 76	7 76	7 76	2	76	77 6	2 27	3 7	3 77	0 78	3 81	200	2 89	7 92	96 0	80	98 0	0010	0100	0000		0000
•	AI	70.		127	74.	75.	2	75.	76.	16.	76.	**	76.	76.	7.	12	77.	27.	78.	81.	85.	89.	92.	96.	96.	98.	100.	100	100	00	000
	12 2%	70.0	2	75.7	74.0	75.3	75.3	75.3	76.7	76.7	76.7	14	76.7	76.7	77.3	17.3	77.3	17.3	78.0	81.3	85.3	89.3	92.7	96.0	96.0	98.0	0.00	00.0	00.0	d	000
	es Al	0.0	200	12.06	74.0	75.3	75.3	73.3	76.7	70.7	76.7	79.7	70.7	70.7	17.3	77.3	17.3	77.3	78.0	77	69.3	69.3	12.7	0.96	0.96	98.0	00.00	00.00	00.00	000	0 0
	4	0.0	00	1	0.4	5.3	8.9	5.3	1.9	6.7	6.7	7	1.0	7	7.3	7.3	7.3	7.3	0.0	-	5.3	6.9	2.7	0.4	0.9	8.0	0.01	10.0	0.0	0-01	0.0
	···	0.		1	.07	. 3 7		2	- 1-	17	- 1	7	1	7	- 11	7	.37	7	1.00	2		-	0 1:	0	000	0	.010	010-	.010	0.0	9 6
	Al	2		•			2	3 79	7 76	7 26	7 76	7 20	7 76	7 76	7	7	7	2	0 7	3 81	2 83	2 89	7 92	96 0	90	98					001
	Al	ė	Link	3.73		78.	75.	75.	76.	-	2	3	78.	3	77.	77.	7		•	9	. 65.	200	92.	-323		9	:	3	3	3	
	2	52.7	2	34.7	55.2	55.2	59.3	55.2	56.7	56.7	56.7	56.7	56.7	56.7	36.1	36.1	56.7	36.1	57.3	58.7	61.3	64.0	65.3	65.3	65.3	66.7	66.7	66.7	66.1	00	9
CEILING	(E)	NO CEILING	9000	16000	14000	2000	00001	000	9000	200	98	3	4500	3	3300	3	2500	3	1800	98	1200	98	8	8	8	8	200	8	88		80
	5	₹ AI	A	Ā	M		Ž		Al		AI/	12.	AI /		۸۱۸	30	۸۱۸		۸۱	100	Al	30	AI /	AI	Al	^1	Al	٨١	AIA		AI AI

TOTAL NUMBER OF OBSERVATIONS

1	1	1	3	
			1	

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE	(FROM HOURLY OBSERVATIONS)	

	0 11	65.7	60.00	70.6	72.6	73.3	5.5	1.5	74:1	75.3	76.0	85.3	92.6	96.3	::	900	000
	N N	65.7	69.0	70.6	72.6	73.3	73.3	73.7	74:1	74.3	76.0	89.8	92.6	96.3	::	000	0.001
	≥ 5/16	65.7	69.0	70.6	72.6	73.3	73.3	73.7	74.1	74.3	76.0	85.3	92.6	96.3	99.4	1000	00.00
	N %	65.7	0.69	70.6	72.6	13.3	73.5	73.7	74:1	74.3	90.00	85.3	92.6	96.3	**	000	000
	* 1	69.7	00.00	70.6	72.6	F. 67	73.9 E.E.	73:7	74:1	74.3	76.0	89.8	92.6	96.3	33	100.0	0000
	% Al	68.4	0.69	70.6	72.0	73.3	73.3	73.7	74:17	74.3	76.0	85.3	9.26	96.3	***	000	000
(S	- 41	65.7	000	10.0	72.0	73.3	73.3	73.7	12:2	74.3	76.0	89.8	92.6	96.3	99.4	000	
VISIBILITY (STATUTE MILES)	¥1 ¥	65.7	0.69	70.0	72.0	E.E.	5.5	73.7	22	74.3	90.0	85.3	92.6	96.3	**	100.01	•
BILITY (STA	21.5	65.7	0.00	10.0	72.6	E. E.	13.3	73.7	22	74.3	9.0	85.3	92.6	96.3	40.00	000	100.0
VISIR	2 4	65.7	0.69	70.0	72.0	73.3	73.3	73.7	1::	74.9	76.0	8	95.6	96.3	***	000	00.00
	≥ 2%	68.9	0.00	70.6	72.6	73.3	73.3	73.7	777	74.3	76.0	85.3	92.6	96.3	40.00	000	0.00
	8	65.7	0.69	10.0	72.6	13.3	5.00	73.7	77	74.3	76.0	85.3	95.1	96.3	**	000	0.00
	AI AI	63.7	0.63	6.0	Ct o.	5.57	5.55	7.57	77	25.5	76.0	88.2	4.20	96.2		33	3.3
	\$ AI	65.7	0.00	10.0	72.0	E.E.	C.E.	73.7	77	74.3	90.0	89.2	4.26	96-1	9.5	**	33
	o Al	23	33	9.4	72.0	55	5.5	e c	2.5	12.	13:		90.0	25	22.5	22	12
	5	90.0	52.4	53.0	25	20.0	99.3	55.7 7.25	90	36.48	50.0	61.3	63.3	*	**	::	**
CEILING	(766.)	NO CEILING	N 18000	N 14000	900 900 900 900	7000 7000 000	900 AIAI	4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3000	1 N I N I N I N I N I N I N I N I N I N	981	1200	88	88	88	88	80

NAVWEASERVCOM

3073 10 5703 JAN 68 CEILING VERSUS VISIBILITY CEILING VERSUS VISIBILITY 0 Al 2 5/16 2 AI × PERCENTAGE FREQUENCY OF OCCURRENCE ~ (FROM HOURLY OBSERVATIONS) VISIBILITY (STATUTE MILES) ¥1 X 7 7 AI 7 2% M Al 4 11 A 2 NO CEILING VI VI 00091 16000 (FEET) 12000 3500 2500 2000 1800 80 VI VI 000 000 000 200 2000 999 99 88 88 88 88

ALAI

AI AI

MIAI

AIAI

AIAI

AIAI

AIAI

AIAI

AIAI

0

0

0

0

NAVWEASERVCOM

0

YEARS	NCE	
YEARS	PERCENTAGE FREQUENCY OF OCCURRENCE	(FROM HOURLY OBSERVATIONS)
1	6	ERV.
	ENCY	Y OBS
1	FREQU	HOURL
	NTAGE	(FROM I
*	PERCE	

CEILING							VIS	SIBILITY (SI	VISIBILITY (STATUTE MILES)	(S)							
=	2	• AI	N 8	AI AI	e Al	1 2%	K 2	Y 1%	¥1 Y	Ä	% Al	*	Z AI	2 5/16	AI ×	Al	
25	0.	6.	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	=:	41.	14	
-	3	2.0	42.6	42.6	42.0		42.6	42.6	42.6	42.6	42.6	42.6	42.6		6 42	4 42	3
-		2.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.	6 42.	6 42	4
	7 7	9.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	+3.	43.	43	6.
36	2 6	3.0	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.	6 43.	6 43	5
	-		44.5	44.5	64.5	44.5	64.5	44.5	44.5	44.5	44.5	44.5	44.5	*	3 44.	**	-
E	2		44.5	66.5	64.5	64.5	64.5	44.5	46.5		46.5	44.9	44.5	**	**	1	H
2	.2	1.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	**	44.	3 44	
7	2	5	44.5	44.5	44.5	44.5	64.5	46.5	64.5	46.5	44.5	44.5	44.5	**	3 44	3 44	+
3	2 4	1.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	**	9 44.	*	
	2 4	4.9	44.5	44.5	44.5	44.5	64.5	44.5	44.5	44.5	44.5	44.5	44.5	+++	9 44	3 44	-
	1 6	4.5	44.5	44.5	44.5	44.5	6.24	44.5	44.5	44.5	44.5	44.5	44.5	**	9 44.	34 6	5
1	1	1	44.5	44.5	44.5	44.5	44.5	4	***	64.5	44.5	44.9	44.5	;	*	-	
3		4.5	44.5	44.5	44.5	44.5	44.5	44.9	44.5	44.5	44.5	44.5	*4.9	***	9 44.	34 6	
	1	4.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.9	64.3	44.	3 44	3 44	-
34			45.2	45.2	45.2	45.2	45.2	45.2	45.2		45.2	45.2	42	45.	2 45.	2 45	7
5		7.1	47.1	47.1	47.1		47.1		*	47.1	47.1	47.1	\$7.1		1 47.	1 47	
0		1	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.	7 47.	7 67	-
38	7 5	3.45	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	5).0	51.	0 51.	0 51	9
-	9		54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.	8 54.	8 54	
14	116		62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.	6 62.	6 62	
1	.T 6	5.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	15.2	65.	2 65.	2 65	
	4	6.9	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.9	66.5	66.	9 66.	5 66	1
	-	1.0	71.6	71.6	71.6	71.6	76	71.6	71.6	71.6	71.6	71.6	71.6	71.	6 71.	4 71	-
0	8		83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	(3.2	83	83	83	
=	8	F	90.3	0.10	91.0	91.0	91.0	01.0	91.0	91.0	91.0	91.0	91.0		0 91	0	-
-	9	4.6		97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.	4 97.	10 4	
-	6	1.0	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.	0100	0100	
=	00000	1.0	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.	0100	0100	9
2	٥	1.0	98.1	10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	0100	0100	
7	6 9	9	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	0100	0100	9

TOTAL NUMBER OF OBSERVATIONS

0

NAVWEASERVCOM

0

TOTAL NUMBER OF OBSERVATIONS

0

				PERCENTAGE (FROM	ENTAGE (FROM			OF SERV	OCCURRENCE ATIONS)	RENCI S)	ш				ноивя Стя	S.T.
CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEE)	2 1	9 Al	S AI	7,1	E AI	> 2%	1 2	¥1 Y	¥1 ¥	- AI	% Al	* 11	N %	≥ 5/16	N N	0 11
CEILING 2000	30.	.0	1.000	40.0	40.0		40.0	6	40.0	40.0	40.0	40.0	40.0	40.0		40.0
10001		\$	\$					9		•			0,0	10.00	9	4
16000		9		*00	60.7	*00	40.7	*00	40.7	40.7	40.7	40.7	.0	*0	40.7	0
14000		•	1236	40.7	40.7				40.7			40.7	40.7	40.7	40.7	40.1
12000		9	10.30	40.7					40.7	•	40.7	40.7	40.7		40.7	40.
0006	32.3	41.9	6:1:	4:0	41.9	6:0	41.9	5.3	5.	4:	41.9	41.9	41.9	41.9	41.9	41.0
9008		1:			4.0						41.9	41.9	-		*	
2 7000	盤			41.9		41.9	61.0		41.0	61.9	41.9	41.9	41.9	41.9	41.0	41.0
0009		-		41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
3006		3	100	41.9	41.9	41.9	41.9		6-1-9	41.9	61.0	41.9	41.9	41.9	41.9	517
1,000		;		5.	41.9	6.1.	41.9	•	6.1.	4	41.9	61.0	41.9	41.9	41.9	6.1.
3500		3		•	42.6	1	4.	*	•	1 :	42.6		42.6	1 .	42.6	
3000		42	- 180	42.6	42.6	42.6	42.6	100	42.6	42.6			42.6	42.6	42.6	42.6
2500		£3.		43.2	43.2	43.2	43.2	43.2		43.2	43.2	43.2	43.2	43.2	43.2	43.2
3		\$:		44.5	1		1	1	•	4.		64.5		3	-
2 20		45.		45.2	45.2	40.00	45.2	43.2	45.2	42.0	5.0	40.4		45.2	45.2	45.2
1200				•		8.00		•				+ .	55.8	8.00	2	
1000		62	44.33	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
88		è		71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
3		76.		76.1	76-1	1007	7601	70.1	16.1	26.1	10.1	1001	76.1	76.1	76.1	76.1
28		2		78.7	7.07	78.7	78.7	78.7	78.7	78.7	7	78.7	78.7	78.7	78.7	78.7
200			100	90	å -	•	0	0.2	200		92.7	03.5	000	000	022.3	000
400		88.	9.700	97.6	98.1	98.7	98.7	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
300		89.		98.1	4.66	100.001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
82		80	200	98.1	99.4	100.0	10000	100.0	100-0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
80		69		1.86	4.66	100.0	100.0	100.0	100.0	100.0	100.0	100	100	100.0	10000	100.0
		80.		98.1	99.9	100.0	Dood	100.0	100-0	1000	100.0	100.0	10000	10000	100.0	90001

0

0 0

NAVWEASERVCOM

PERCENTA (FRO

AGE FREQUENCY OF OCCURRENCE	CALIDITY ORGEDVATIONS	- CESERA ATTOMS)
FRED	1017	200
AGE	3	5

TOTAL NUMBER OF OBSERVATIONS

0

1111	MONTH -	OURS TES. T.)
		NON
The second second		
	\$1	

RVATIONS)
(FROM HOURLY OBSERVATIONS

	0	60	91.	91.	92.	92.	93.		93.	. 70	94.	98.	000	000	99	98	88
	*	00	00		0.0	2.9	9 0		00	~		1.0	0. • .	1000	500	0.0	55
	A1		00	00		00	6	00		00	00	7 98	10				000
	≥ 5/16	89.	91.	91.	92.	92.	93.		93.				000	00	00	000	88
	× ×	0 -						b	93.6	2 .		8.0		00	00	000	00
		00	00	7 2		30 No	250 10	7			6 5		010	010	010	010	010
	AI *	80			6	7 50	6	00	31 54	20.00	00	98	10 10	10	100	01	99
	% AI	89.0	91.0	-:-		92.9			93.6	*	+ 0	98.7	00	00			000
	-	0.0	000	00	5.0	5.0	3.6	94	99		8.4	8.7	0.0	0.0	0.0	0.0	00
MILES)	٨١	00	000	00	00	00	60	00	00	00		9 7	010	00	010	00	22
TATUTE	YI 71	000	.00	Sept. The	6	100 00	6	00		00	00	-	20	100	10	100	88
VISIBILITY (STATUTE	¥ 1%	89.0	016			92.9				: .			00	00.00	000	000	88
VISI	2.3	- Oc	000		•	5.0	9.0				8 -	1.0	0.0	0.0	0.0	0.0	000
	٨١		00		6	00	6	00		00		9 7	-	010	010	000	00
	1 2%	60	100	91	92	92	00	00		76	76	9	201		Compt.	100	000
	e Al	89.0	91.0	h	92.9	92.9	93.6		mm			98.7		00	00.00	000	88
	•	00	00	00	2.0		3.6	•	9.0	2.4	8 -	8.7		0.01	0.01	0.0	000
	AI .	00	00	00	6	60	00		00	00		010	010	010	010	010	90
	VI S		56		92	100 mg	6					98		100	100	100	100
	AI	60		160	.26	92.	93.	60	93.6	33	96	98					100.0
	2	**	2.2	2.5	7:1	7.1	7.7		67.7	40	00	71.6				71.6	- 9
	Al	-															
CEILING	(FEET)	NO CEILING	1 4 1 8 000 1 1 4 000 1 1 4 000 1 1 1 1 1 1 1 1	Y 14000	VI VI 0000 0000	7 NO00	9000 AI AI	VI VI 86	3300	7 200	1800	1200	88	VI VI 58	98	88	80
		Z															

0

0

0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS TES T.

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	2 1	N AI	S) Al	1	8 1	2 2%	N N	V 1%	¥1 ¥1	AI	VI %	* AI	NI %	≥ 5/16	N ×	٨١
NO CEILING		91.		91.0	91.		1	-:		-	6	6	0		91.	91.0
≥ 20000	2	92	- 50	92.9	92.	2			-	2	0	0	•	92.	0	92.9
≥ 18000		92.		92.9	92.9	92.9	92.9	92.9	92.9		9 92.	9 92.	9 92.	9 92.9	92.	0
		92.		92.9	92.	2		2	•	2.	0	0	0	2.	92.	0
		93.	0	93.6	93.	3		9			6		0	6	93.	0
> 12000		6		94.2		94.2		94.2	94.2	94.		2 94.	2 94.	2 94.2	0	94.2
		64.			.46	94.2		4.	94.2	94.	2 94.	2 94.		. 46	94.	2.46
000 1	200			94.2	94.2	94.2		94.2	96.2	94.	2 94.	0	2 94.	94.	2 94.2	
		96		94.8	94.	*	.76		94.8	94.	6		8 94.	8 94.8	94.	94.8
N 1000	3	94.		94.8	94.8	94.8	6	94.8	94.8	94.	8 94.		0	94.	94.	
1000		94.	27		94.8	94.8	94.		-	94.	0	0	8 94.		94.	94.8
2000		36		94.8	94.	*	94.8	94.8	94.8	94.	8 94.	-	8 94.	4	8 94 . 8	
1		95.	170	95.5	95.5		5		95.5	95.		5 95.	5 95.		95.5	
1400		95.				95.5	95.5	95.5	95.5	95.	9 95.		5 95.	5 95.	:	95.5
1	74.2	95.5	95.5	95.5	95.5		3		95.5	95.		6	5 95.	5 95.	95.5	
3000	2.	96	. I Exc.	96.1	96.1	96.1	. 9	96.1	.0	96.	1 96.		1 96.	1 96.	96.1	96.1
		96	100	96.1	0			96.1	96.1	96.		1 96.	1 96.	1 96.1	96.1	96.1
> 2000	200	96		9	96.1	96.1	96.1	96.1	96.1	96.	1 96.	1 96.	1 96.	1 96.	96.1	96.1
> 1800		96.	O STATE		0	96.8	8.96	96.8	96.8	96.		8 96.		8 96.8	8.96	96.8
-		98	No.	98.7	98.7	98.7	98.7		8	98.	7 98.	7 98.	7 98.	7 98.	1 98.7	98.7
≥ 1200		98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.	7 98.	7 98.		7 98.7	1 98.7	98.1
VI 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	0100	0100.	0100.	0100.0	100.0	100.0
8	4.	0	100.0	100.0	100.0	100.0	100.0	100.0	1001	100.	10	0100	0100	0100.0	100.0	100.0
008 A		Ŀ	100.0	100.0		100.0	100.0		-	-	0100.	0100	0100.	0100.0	100.0	100.0
	75.5	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.	0100	0100	0100	0100.0	0100.0	100.0
8	100	Ŀ	100.0	100.0		100.0	3	0	•	10	10	20	0100.	-		100.0
		0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	10	0100	0100	0100	0100.0	10000	10001
× 400	a	9	100.0	100		100.0	0		100.0	-	0100.	~	0100	-		-
38		0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.	0100	0100	0100	0100.0	10000	100.0
	boil	e	100.0	100.0	100.0	100.0	100.0	100.0		100.	0100.	0100	0100	0100.0	100.0	100.0
		0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.	0100.	0100	0100	0100.0	1000.0	1000
٥	A. J.		100.0	100.0	100.0	100.0	100.0	100.0	00	100.	0010	0100	0100.	0100.0	100.0	100.0

			8	•
ŀ.			ŧ	í
ı				7
ı			•	
ŀ				
ı				
ı				
н				
ı				
r				
ı				

HOURS 4 L'S. T.

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

CEILING VERSUS VISIBILITY

Al > 5/16 ٨I

AI

Al

Al

17

7 7

AI

N Al

AI

10

AI

2

(FEET)

NO CEILING 2 20000

VI VI 00091 16000

12000

9000

9000

AIAI

VISIBILITY (STATUTE MILES)

0 Al

84.5

85.8

85.8

91.6

86.9

86.3

87.1

87.1

91.6

91.6

62.6

98

ALAI

2000

ALAI

500

AI AI

3000

ALA

63.

88

AIAI

6.0

88

AI AI

88

ALAI

65

88

AIAI

80

AIAI

95.5

98.7

98.

86.9

87.1

87.1

91.6 95.9

91.6

7.86 99.4

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM



ALAMEDA, CAL ! FORNAL

ALAMEDA, CALSEDRALA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS T.

5703 CEILING VERSUS VISIBILITY **JAN 68**

-

0 Al

* AI

≥ 5/16

2

*

*

٨١

71 7

7 7

7

2 2%

W VI

4

10

۰ ۱۸

2 1

(FEET)

0

NO CEILING

0

VI VI 00081 00081

Y 1 400

VI VI 800 800 800

0

2000

0

0

VISIBILITY (STATUTE MILES

71.0

72.9 72.9

75.5

69.7 69.7 69.7

69.7

71.0

52.3

1500

1200

AI AI

88

88

88

AIAI

2500

51.0

3500

9000

69.7 69.7 69.7 69.7 69.7

69.7

69.7 69.7

69.7 69.7 69.7 69.7

85.2 83.2 83.2 85.7 87.7 87.7

91.0 91.0

0

TOTAL NUMBER OF OBSERVATIONS

155

NAVWEASERVCOM

80

AI AI

3065

JAN 68 5703 CEILING VERSUS VISIBILITY

0 N N ≥ 5/16 2 87.5 * % N PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) Ā VISIBILITY (STATUTE MILES) 7 7 7 ۸I 2 2% ۳ ۸۱ 4 VI VI 4 2 NO CEILING CEILING (FEET) 1500 1200 80 W 1V 200 700 900 900 989 3000 2000 88 88 88 88

...

0

AI AI

ALAI

ALAI

NAVWEASERVCOM

ALAI

1240

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0

0

CEILING (FEET)							VIS	VISIBILITY (STATUTE MILES)	TATUTE M	_						
	V V	o Al	\$ 1	→	Ä	≥ 2%	Al Al	71	V 7	71	* Al	*	Z Al	2 5/16	× Al	0
NO CEILING	35.5	17.7	47.7	47.7	47.7	47.7	47.7	47.7	4.7	7 47.	7 47.	47.		47.	47.7	1.29
3	36.6	40.4	49.7	49.7	19.7	49.7	49.7	-	69	400	1	. 69.	6.6	68	484	
0081	36.8	10.4	+0.4	49.7	10.1	49.7	19.7	10.1	.0	40.	7 49.	**	*0	+6	49.7	49.1
3	36.8	19.7	49.7	49.7	49.7	49.7	49.7	49.1	6.9	1 69.	•	.68	188	49.	680	
14000	36.6	10.4	49.7	49.7	49.7			49.7	49.	40.	7 49.	1 49.	49.	49.	1.6.	49.7
	37.4		51.0	51.0	51.0	51.0	51.0	51.0	51.	51.	8	0 51.0	51.6	51.6	51.0	51.0
10000	37.6		51.0	51.0				51.0	51.	51.	51.	51.	91.0	51.	0 51.0	51.0
000 AI	37.6	2	51.0	31.0	51.0	51.0	51.0		51.	51.		0 51.0	91.	51.0	•	51.0
9008	37.6	51.0	\$1.0	51.0		3	4	51.0	51.	51.	51.	51.	51.	51.	51.0	51.0
200	37.4	21.5	51.0	81.0	51.0	21.0	51.0	51.0	51.	51.	0 51.	0 51.0	51.0	51.0	51.	51.0
9009	37.4	51.0	31.0	51.0		51.0		51.0	-15	51.	51.	51.	51.	51.	0 51.0	51.0
9005	37.4	51.0	91.0	51.0	51.0	51.0	51.0	51.0	51.	51.	51.	51.0	51.0	51.0	51.	51.0
4500	37.4		51.0	51.0		51		51.0	51.	51.	51.	51.	51.	51.	51.	51.0
000	37.4		51.0	81.0	51.0	51.0	31.0	51.0	51.	51.		51.0	51.0	51.0	51.0	51.0
3500	37.4	100	51.0	31.0	51.0	51.0		51.0		. 51.	51.	-15	91.	51.	51.	51.0
3000	37.4		52.3	52.3	52.3	52.3	100	52.3		52	52.	3 52.	52.	2	-	52.3
2500	38.1	53.6	54.2	54.2	54.2	54.2		54.2	54.	2 54.		54.		54.	2 54.2	54.2
IA 2000	38.1		55.9	55.5	55.5	55.5	55.5	55.1		5 55.	55.	5 55.	55.	3	55.	55.5
V 1800	38.7	95.5	56.1	56.1	1.95	56.1	56.1	56.1	. 36.	1 56.	56.	1 56.1	1 56.1		56.1	56.1
		57.4	56.1	58.1	58.1	58.1	58.1	50.1	58.	1 58.		1 58.				58.1
N 1200		61.0	62.6	9.29	62.6	62.6	62.6	62.6	62.	6 62.	3	6 62.0	6 62.0	62.0	62.6	62.6
			67.7	67.7	67.7	67.7		67.1	9	7 67.	67.	7 67.	1 67.	1 67.	67.7	67.7
8	47.1	70.3	71.0	71.0	71.0	71.0	71.0	71.0	4	0 71.	17.0	71.0	71.	71.0	71.0	71.0
3.3			72.3	72.3	72.3	72.3	72.	72.3	72.	3 72.	3 72.	120	72.	72.	12.	72.3
92 AI		76.	76.8	76.8	76.8	76.8	77.	77.4	77.	+ 77.	4 77.	4 77 .1	17.	17:	77.4	77.4
98	000	83.	84.5	84.5	84.5	84.5	8	85.2	85.	2 85.	2 85.	2 85.	99	85.	85.2	85.2
8		970	91.6	91.6	91.6	91.6	92.	92.3	92.	3 92.	₹ 92.	₹ 92.	92.	92.	92.3	92.3
		96.	96.8	96.8	96.8	96.8	97.	97.6	97.	4 97.	4 97.	4 97.	97.	97.1	97.6	97.4
88	51.0	:	97.4	98.7	4.66	99.4	100.0	100.0	-	0100	0100	0100	0100	1000	1000	100.0
		-05	97.4	98.7	99.4	90.4	10000	100.0	100	9000	0010	0100	1000	100.0	100.0	
8			97.4	98.7	4.66	4.66	100.0	100.0	100	0100	0100	0100	0010	100	100.0	100.0
		120	97.4	98.7	99.4	99.4	100.0	100-0	001	100	0010	10010	1001	10010	1100-0	100

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

.0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING VERSUS VISIBILITY

RAAB

≥ 5/16

2 AI

*

X Al

_ ^I

¥1 X

7

7 Al

1 2%

M Al

4

M

4

2

(FEET)

NO CEILING

VI VI 00081 00081

Y I Y 1

VIVI 88

900

88 88

0

VISIBILITY (STATUTE MILES)

1 Al

					36.	
+ 5	3.	5.	99	9 9	36.1	
**		5.		. 9	36.1	

36.1

				-			-	7			4			9			ř.
-	-		0 4	36	00	36	36	36.	37	27	1	39.	40	42.	*	49.	
75	1	1	n -	-		-	-	7	4	1			-	0	-	-	•
	35	2	35	30	36	36	36	36	2	3 6	-	39	40	45	3	6	
46	-	7	n -	-	7-	5	7	7	*	1		•	-	0	•	-	•
35	35	33	25	2	3 8	36	36	90	5	3	37	39	40	42	*	6	
				_	_		_	_				-	-	-		_	_

36	*	36	37		3	37	39	4	42	3	4	28	63	9	6	7.6	8	6	-
7-										-	-	-	N	L	0	-	-	-	1
36										3	64	58	63	64	69	76,	84	98	-
: -		5	7	4	4	4	*	-	0	-	-	5	N	L	0	5	-	0	1
36	36	36	37	37	37.	37	39	40	42	1	67	58	63	66	69	76	84.	96	1
-	5	5	3	4	3	3	4	-	0	-	r	-	N	L	0	-		-	1
36	36	36	37	37	37	37	39	40	42		67	5.8	69		69	76	84	8	

200000

3500

2000

AI AI

1800

ALAI

1200

AIAI

88

AIAI

88

88

80

88

0

•				20 1														
1		-	0	a	2		0	-	63.		0	-	4		8	0	0	9
1	m	C.	~				4		0	-	0		•	0	0	9	0	9
	3	3	4	-		-	-	-	N		-		-	-	8	3	8	3
		92		1	•										-	7	-	7
		-	6	0	2						0			4	0	9	0	9
	w		-			4					0	-	8	0	0	9	0	9
-	3		-3	-	-0	-	-		-		-		-	-	2	굮	=	ı
1	•										×			7	ä	7	~	7
1	-	-	0	0	2	4		8	69	-		9			0	0	0	9
•	W)		-					-		•		7		0	8	9	0	9
L	20				-		-		N	-	-		-		3	7	=	3
1	-	H								ij.					9	ч	9	4
1	-	-	39	0	~		0		0	-		4	18		0	8	0	d
•	m		-		-			-			60	-		0	0	0	0	9
L	1	740	-0							-			Acres		-	-1	-	1
	4				0		-	7		u	O	-	S	4	0	9	0	9
Ů,	Ē					r		-		•		9	•	P		7	6	A

ALAMEDA, CALIFORNIA

VISIBILITY (STATUTE MILES)

A

1 2%

N Al

VI VI

٨١

٥ ٨١

2

(FEET)

0

0

NO CEILING ¥ 20000 VI VI 00091 00091

0

900

V 1 V 1

0

0

900

200

0

ALAI

0

3500

AIAI

2500

AI AI

1800

AIAI

(FROM HOURLY OBSERVATIONS)

HOURS (LS.T.)

-

Al

7 AI 5703

CEILING VERSUS VISIBILITY

48.4 91.0 2 5/16 2 ٨I 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.7 48.4 ٨١ % N 39.4 39.4 91.0 74.2 AI 48.4 29.7 29.7 29.7 48.4 35.5 35.5 × ×

61.9

31.0

120

MIM

88

AIAI

35.5

90.3

37.4

88

AIAI

88

AI AI

TOTAL NUMBER OF OBSERVATIONS

155

NAVWEASERVCOM

80

ALAI

88

AIAI

0.

0

CEILING VERSUS VISIBILITY

ایدا		O AI		48.6	51.0	51.6	51.6	51.6	51.6	51.6	54.2	58.7	72.3	86.9	96.6	99.4	000	000
HOURS LES. T.		N N	47.7	4.8.4	51.0	51.6	51.6	51.6	51.6	51.6	54.2	58.7	72.3	86.5	96.8	10000	100.0	100.0
		≥ 5/16	47.7	48.4	51.0	51.6	51.6	51.6	51.6			200	72.3	86.5	96.8	100.0	-	100.0
		% Al	47	48.4	51.0	51.6	51.6	915 6	51.6	52.9	2 54.2	58.7	72.3	86.5	96.6	100.0	0100.0	100.0
		*	47	48.	51.	51.	51.	51.	51.	51.		58.	72.	86.	96.	99.	100.	100
ш		× AI	47.7	48.4	51.0	51.6	51.6	51.6	51.6	52.9	54.2	58.7	72.3	89.7	96.8	100-0	100.0	100.0
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)	ES)	-	47.7	48.4	51.0	51.6	9.18	51.6	51.6	52.9	54.2	58.7	72.3	86.5	6	99.4	100.0	100.0
OBSERVATIONS	VISIBILITY (STATUTE MILES)	¥1 V	47.7	4.84	51.0	51.6	916	51.6	51.6	52.9	54.2	58.7	72.3	86.5	•	4.66	100-0	100.0
Y OF	IBILITY (ST	71 71	47.7	4.8.4	51.0	51.6	51.6	51.6	51.6	51.6	54.2	58.7	72.3	86.5	96.8	1.00	100.0	100.0
UENC ILY OF	VIS	12	47.7	4.84	51.0	9.16	51.6	51.6	51.6	52.9	54.2	5.86	72.3	86.5	96.8	4-66	100-0	100.0
FREQUE		2 2%	47.7	484	51.0	9.18	51.6	51.6	51.6	51.		58.7	72.3		96.8	100.0	100.0	100.0
ENTAGE (FROM		E AI	47.7	48.4	51.0	51.6	51.6	51.6	51.6	51.6	54.2	58.7	72.3	86.5	96.8	4.66	7.66	4.66
PERCEI (VI 4	47.7	4.8	51.0	51.6	51.6	51.6	51.6	51.6	54.2	58.7	72.3	86.5	96.8	99.4	99.4	99.4
		S) Al	1000		51.				2		54.	58.	280	L. Carlotte	00	-		99.4
		9 Al	**		20	51.	51.	52	35	52	53.6	58.	71.	85.		96	96.	96
		0 1									31,6					Call South		47.1
	CEILING		NO CEILING	91 VI VI 00051 00051	Y 1400 Y 1200	000 AI AI	900 7000	4 15	000 1 A1 A1	3300	7 200	VI VI 0051 1500	V 1 V 000 1000	88 MM		88	88	80

PERCENTA (FRO

PENCE	10111			
AGE EPEDIENCY OF OCCIPPENCI		ATIONS		
TO YOU	5	DA LOUISIN DESERVATIONS	というこう	
FPECIF	1001	> 1010	2000	
AGE	1	7	5	

CEITING							×.	VISIBILITY (STATUTE MILES	TATUTE MIL	(ES)						
	N 70	۸I	8 41	7 4	e Al	> 2%	1 2	¥ 1	YI ¾L	Ā	% Al	* 1	% AI	≥ 5/16	% AI	0 2
NO CEILING	63.9	80.0	80.0	80.0	80.0	80.0	80.0		80.0	80.0	80.0	80.0		80.0	80.0	80.0
A 1800		:	4.	:	:			1	:	3	3	9 6			5	90
141					8	. 4	200	2	4	9 0	2	8	84.8) æ		0 0
		46	87.1	87.	87.	67	87.	87.	87.	87.	87.	87.	0.2		-	
≥ 12000	67.	87.1	87.1	67.1	87.1	87.1	87.1	87.1	8	87.1		87.1	87.1	87.1		67.
0001 AI	67.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	15000	87.1	87.1
	67.1	87.1	87.1	87.1	87.1		87.1	1.78	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
908 Al	67.1	1.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
529	67.1	17.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87-1
000 AI	67.1	87.1	87.1	87.1	87.1	87.1	87.1	87.	100	87.1	87.1		87.1	87.1	87.1	87.1
	67.1	87.7	87.7	87.7	87.7	87.7		87.7	8	87.7		87.7	87.7		87.7	87.7
V 4500	67.7	*:		88.4		88.	88.	88.	88.		88.4	88.	. 88	8	88.4	88.4
	68.4	89.0	89.0		89.0		89.	89.	89.	-		8	89.	8	3	89.0
3300	68.4		89.0		89.0	89.	89.	68	89.	89.	89.	89.	89.	89.		89.0
12	68.4	89.0	6		89.0	.68	89.	89.	89.	89.	89.	89.	89.	8		
> 2500	69.0		89.7	89.7		.68		69	89.		89.		89.	89.		89.7
10		90.	3			90.	90.	90.	90.	90.	90.	90.	90.	6		90.1
98 AI	69.7	0:1:	91.0	91.0	91.0	91.0	91.	91.0	91.0	91.		91.	91.0	91.	91.0	91.0
		93.	93.6			94.	-	94.	94.	94.	94.	94.	94.	6		94.2
1200		95.5	53.5	95.5		96.	96.	96.	96	96	96.	96	96	96.		96.1
			98.1	1.25		98.	-	98	98.	•	98.	98.	98.	98.		98.7
28	72.9	3:	*	4.66	90.4	100.0	100.	100.0	100.0	A speak	100.0	1000	100.0	100.0	100.0	100.0
			99.4	99.4	99.4	å		100	100.0	100	100	100	100	100	•	100.0
8	2	4:5	4.66	4.66	40.0	0.001	100	100	100.0	100.	<u> </u>	100.0	0000	100	10000	100.0
	5		4.66	99.4	99.4	å	-	100.0	9		100	100.0	100	-	100.0	100.0
S AI			4.66	99.4	99.4	0	100.0	100.0	100.0	2		10000	100.0	2	10000	100.0
	3	7	99.4	99.4	99.4	100.0	100	0		100.0	100.0	100.0	100.0	100.0	100.0	100.0
88	72.9		4.00	99.4	99.4		-	100	100.0		100.0	1000	100.0	100.0	10000	100.0
	2		40.66	99.0	4.66	100.0	100.0	100.0	100.0	100.0	100	100.0	100	100.0	1000	100.0
89	2	*	4.66	**	4.66	0		-	100.0	100.0	100.0		100	100.0	100.0	100.0
	12.3	49.0	77.4	99.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	100.0	100

5703 CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

0

NAVWEASERVCOM

٨١

VI Z

≥ 5/16

Al

Al

W N

۸I

V 72

AI

1 2%

Al

4

10

4

2

(FEET)

NO CEILING ≥ 20000

VISIBILITY (STATUTE MILES)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING VERSUS VISIBILITY

90.3

1

6	1
-	3
-	
22	
	11.5
	a a

90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	91.0	91.0	92.9	93.6	94.2	8.46	97.4	98.1	98.7	98.7	98.7	4.66	0000	
90°3	90.3	90.3	90.3	90°3	90.3	90.3	90.3	90.3	91.0	91.0	92.9	93.6	94.2	94.8	97.4	98.1	98.7	98.7	98.7	99.4	100.0	
8006	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	91.0	91.0	92.9	93.6	94.2	94.8	97.4	98.1	98.7	98.7		99.4	100.0	
90.3	90.3	90.3	90.2	90.3	90.3	90.3	90.3	90.3	91.0	91.0	92.9	93.6	94.2	94.8	97.4	98.1	98.7	98.7	98.7	4.66	100.0	-
90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	91.0	91.0	92.9	93.6	94.2	94.8	97.4	98.1	98.7	98.7	98.7	4.66	100.0	

1800

AI AI

1200

ALAI

88

AIAI

		2 100	The same of	Service State	
•			00	00	
98	-	00	000	88	
0	00	00	100	100	
	FF	99	66	60	
	. •a				
98	96	60	00	88	
			77	33	
	-	0010	00	00	
98			00	od	
0	98	0100	000	88	
-	KK	36	86	55	
98	96	60	00	80	
	0.0	100	20		
	FF	40	00	00	
	-:-		-	24	

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

88

ALAI

88

AIAI

80

AIAI

88

AIAI

0 0

Y 1 1

200

900

ALAI

3000

2500

ALAI

VI VI 00091

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS TES T.

(rem)	_								. *						,
2	AI !		;		42 4	7	2	2 (- 1	*	*	2 0	•	* .	0 1
	7 69.0	7 70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	711.
47.	69.		71.0	71.0	•	71.0		1:	71.0	1:		71.0	11.	71.0	71.0
49.	7		72.3	2		72.3		2		2		7	72.		72.3
30.	-	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
	7	3	25.5	75.5	+	75.5	3	-	4	3	3	3		3	75.
31.	74.	74.	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.9
	0 76.		78.8	75.5	78.5		75.5		75.5	3		73.5	75.5	75.5	75.
3	76.	8	76.1	76.1	76.1	T.	76.1	76.1	76.1	•	76.1	76.1	76.1	76.1	76.1
5	76.		76.1	76.1	76.1	76.1	76.1	76.1	76.1			76.1	76.1	76.1	76.1
51.	6 74.	8 75.5	76.1	76.1		76.1	76.1	76.1		76.1		76.1	76.1	76.1	76.1
	6 76.		76.1	76.1	76.1		76.1		. 9	76.1		76.1	76.1	76.1	76.
51	4 78.						,		•		. 9	76.8	76.8	•	76.8
5	4 78.	76.1	76.8	76.8	76.8	76.8	76.8	76.8		76.8		76.8		76.8	76.6
51.	6 75.	•	. 9	;		.9			76.8		. 9	76.8	76.8	76.8	76.8
51.	6 78.	76.1	76.8	76.8		76.B	76.8	76.8						3	76.8
51.	75.	76.	. 9	. 9	76.8	•	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
52.		30	77.4			2						77.4		77.4	77.
52.	76.	76.		77.4		-	77.4			77.4	-	77.4	77.4	77.4	77.4
55.	79.		80.7	80.7		80.7		80.7	80.7	80.7		80.7	•	80.7	80.7
56.	-		83.9	83.9		83.9	83.9		83.9	83.9	83.9	83.9	83.9	83.9	83.9
58.	84.	The state of		1:		87.1			7	87.1	1:	87.1		8	87.1
58.	87.		89.7	89.7	1.68		89.7	1.68	89.7	89.7	89.7	89.7	89.7	89.7	1.68
59.	88.	89.	91.0						-	91.0	-			0	700
.09	92.		95.5	95.5			95.5	95.5		95.3	95.5			0	95.5
60.	96.	96.	97.4	97.4		97.4	97.4	97.6		97.4	97.4		97.4	97.4	97.4
60	94.	;		98.1						98.1		98.1			98.
60.	96.	98.	100.0		100.00	100.00	100.001	0	100.0		100.0		100.0	100.0	100.0
60.	1	8	-	100.00	100.01	100.01	100.001	100.001	100.0	100.0		100.0	100.0	100.0	100.0
60.		:	-	100.00			0	•	0		00	100.0	100.0	100.0	100.0
60.	0 96.	1 98.7	100.0	100.00	100.00	100.001	100.001	100.001	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60		6	-	100.001	000	2	2	~ ~~	4	2	*		-		

0

0

0

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

1

NAVWEASERVCOM

HOURST FE T.

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE

ALAMEDA, CALIFORNIA

(FROM HOURLY OBSERVATIONS)

٨١ 2 5/16 Al

AI

71 72

7

1 2%

M Al

4

1

4

2

NO CEILING

0

¥ 2000

VI VI 0006 0006 0006

0

900

2000

ALAI

VISIBILITY (STATUTE MILES)

٨١

۸۱

% Al

58.1

60.7

60.4

60.7

61.9 61.

61.9

61.0

3000

ALA

2000

AI AI

1500

ALA

0

1200

ALAI

0

88

AI AI

88

ALAI

0

88

ALAI

6

61.9

61.9

61.9 61.9

61.9

4.99

4.89

85.2

TOTAL NUMBER OF OBSERVATIONS

155

NAVWEASERVCOM

80

ALAI

88

AIAI

HOURS ALL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING VERSUS VISIBILITY JAN 68

							VISI	VISIBILITY (STA	(STATUTE MILES)	ES)						
(FEET)	2	AI	N AI	4	e Al	Y 2%	2 1	YI %	VI Z	- AI	% Al	* AI	AI &	> 5/16	AI N	AI
O CEILING	41.0	55.7	200	55.9	55.	0.4	55.9			55.9	55.9		55.			
00091	41.7	57.2	57.4	57.5	57.	w.	57.5				57.5		57.			
	42.7	58.8	59.	26	200	120	59.2			59.2	59.2		30.		1	
	4 4 4	59.8	000	60.2		0.2	60.2	0000	60.0	60.2	60.2	60.2	60.2		9 9	0 0 0 0 0 0
VIVI 2000 7000	43.6	59.9	9 9	60	9 9	6.4	600.3	00		00	600.3		99			
9000 AI AI	43.6	900	000	900	900		600	00		00	60.5		000	A 10		
1 4 4 500	43.7		600	96	9 9	0.0	6000	0-		6-	60.9		600		W 200	
3300	43.8		60.	25	61.	0.9	01.0				61.0		6.5	and the		
1 1 L			62.	63.	63.	40	63.6		62.4		62.4		62.		1 1	
V V V V V V V V V V V V V V V V V V V	46.2	64.	64.	45	64.	.6	64.6	31		*	64.6		67.		100	
Y 1200 Y 1000	49.8		71.	.17	71.	00	72.0	25		22	72.0		72.		745	
908 AIAI	54.0	80.		80.	80.		81.0	- 2		1:	81.0		81.	80 00	Sec. I	000
VIVI 808	54.8	89.7	86.	86.	86.	.0	87.1	23		::	91.3		91.	20		
88 88	55.7	.2	94.	94.	94.	.10	95.2				98.2		98.	00	100	72
300	55.7		98.	99.	99.	.8	99.9				99.9		99.			999
90 00	55.7	5.	0	99.6		8.8	99.9	66	99.9	99.9	99.9		99.	-	-	010

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0

0

0

0

0

0

Californ	CEILING							5	SIBILITY (3	VISIBILITY (STATUTE MILES)	(S3)						
32.0 46.0 46.7 46.7 46.7 46.7 46.7 46.7 46.7 46.7	(1)			100	*			1000		100000000000000000000000000000000000000	Ä	98.0	-			No. of the last	N N
32.7 47.3 48.0 48.0 48.0 48.0 48.0 48.0 48.0 48.0	CEILING 20000		46.0	46.	•			46.	46.	46.	46.	40	46.	46.	46.	4 .	46
34.0 49.3 50.0 35.0 35.0 35.0 50.0 50.0 50.0 50	18000		47.3	•	•	•		48.	48	84	48.	48.	48.	48.	48.		
34.0 51.3 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0	14000		9	0	J.		6.	00	8:	200	50.	8:	20:	0	50.	• •	
34.0 51.3 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0	10000		91.3	52.	2.		25	52.	52.	52.	52.	52.	52.	52.	52.		
34, 7 52, 7 53, 3	8000		51.3	52.	1.1		2.	52.	52.	52.	52.	52.	52.	52.	52.	52.	50 50
36.0 54.7 55.3 55.3 55.3 55.3 55.3 55.3 55.3 55	5000	-	52.7	53.				53.	53.	53.	53.	53.	53.	53.	53.	53.	
37.3 55.3 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0	4500		54.0	54.	+=		**	54.	5.00	54.	54.	54.	54.	54.	54.	54.	
\$8.0 57.3 58.0 58.0 58.0 58.0 58.0 58.0 58.0 58.0	3500		55.3	56.	9		00	56.	50.	56.	56.	56.	56.	56.	56.	56.	C- C-
40.7 60.0 60.7 60.7 60.7 60.7 60.7 60.7 6	2500		57.3	58.				58.	58.	58.	58.	58.	58.	6.3	58.	58.	200
42.7 64.7 65.3 65.3 65.3 65.3 65.3 65.3 65.2 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3	1500		60.09	000		0	0 4	•09	9	60.	.09	60	60	000	60	600	00
49.3 86.0 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86.7	1200		70.7	65.	50	50	50	65.	50.	65.	65.	65.	69.	65	20.	65.	
\$0.0 88.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90	88		79.3	80.		y 🗣 i 🥞	60	76.	60	9.0	76.	80.	80.	90	76.	90	
50.0 96.0 98.1 99.3 97.3 98.0 98.0 98.0 98.0 98.0 98.0 98.0 98.0	909		86.0	86.				96	86.	96.	96.	90.	86.	90	90	96	
50.0 96.0 99.3100.0100.0100.0100.0100.0100.0100.01	500		95.3	97.	80			98.	96	98	98.	: 6		::	98	98.	
50.0 96.0 99.3100.0100.0100.0100.0100.0100.0100.01	300		96.0	99.	100.0	6	00	100	100	100	100.	100	100.	100	100	100	100
	000		96.0	99.3	100.0		100.0	100	100	100.0	100.0	100	100	100	100.0	100	000

(2)

0

-

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	0 1	35.3	9.	7.	7	98.	99.	.2.	13.	50.0		000	5.	88.00	800
	× Al	6.0	0.0	6.6	7.3	8.7	39.3	2.7	5.3	7.3		-0-0	-	0.00	000
	\$/16	6.0	00	8.6	6.7	8.03	9.3 3	2.7 4		m 0	0.0	0 0 0 0	m m	0.00	000
	AI %	W.C.	90		W W	07	W.	44	.3 4	40	011	1000	- co	0 0	900
	AI .	26.0	96	200	3 37	7 38	3 39	7 42	3 43	3 47		- 0 - 0		-	888
	*	35.	ma	10	37.	(A) (A)	39.	44	4	* 50		0001		000	1000
	% Al	35.3	36.0	37.3	37.3	38.0	39.3	42.	43.3	7.	04	2 3 3 5	- 10		000
(8	1 1	35.3	36.0		37.3	38.0	39.3	42.7	43.3		0 4	66.0	- 5	98.0	000
TUTE MILES	¥1 Y	35.3	36.0	37.3	37.3	38.0	39.3	42.7	43.3	\$7.3	04	0000	200	0 20	000
VISIBILITY (STATUTE	۲۱ ×	95.3	00	6.7	27.3			42.7				0 0 0 0	200	98.0	000
VISIB	2 1	15.3	0	1. •4.	7.3	18.0	39.3	42.7		50.0	33	TON	9 6 6	92.0	0000
	27%	5.3	9.0	• • •	7.3	98	W.		W. W.	7.3	10	0 0 0	2.0	0 40	000
	AI E	6.3	00	W. C.	6.6	8.03	9.3	2.7 4	5.3 4	60	01	000		0.00	000
	AI -		00			.0 3	. S .	4 6	44	4 6	011	1000		w w r	710
	Al	35	96	W 4	500	7 38	7 40	7 42	E 43	3 47	200	- 0 - 0	1 8 1 E	999	777
	N S	35.	36	37	37.	38.	4	42.	44	50.		40	7.5	000	96.
	AI	35.	36	25	37.	38.	39.	42.	43.	50.	50.	6 6 6			93.
	N 0					29.3					38.0	# O		000	
CEILING	(FEET)	NO CEILING	18000	14000	0000	2000	9009	4500	3500	2500		8 8 9 9 9		36 4 86	
0		오 ^시	ALAI	MAI	MM	AIAI	ALAI	ALAI	ALAI	ALAI	MM	1111 111	N AI	AI AI	AI AI AI

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

0

				PERCEI (ENTAGE (FROM	PERCENTAGE FREQUENCY (FROM HOURLY OBS	DUENC RLY OF	NCY OF OCCURI	OF OCCURRENCE SERVATIONS)	RENCI S)	w				HOURS PUS. T	18.1.1
0							VIS	VISIBILITY (STATUTE MILES	ATUTE MIL	ES)						
_	8 41	% Al	8 41	7 1	E A1	> 2%	2 1	%1 Y	¥1 Y	- AI	% Al	* 1	Z AI	≥ 5/16	M AI	AI .
0 8	20.0	1000	32.0	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.
88	20.0			33.3	33.3	33.3	33.3	33.3	33.3	33.0	33.3	33.3	33.3	93.	33.3	2
88	20.00		33.3	0.	9.0	900	94.0	9	*	34.0	34.0	34.0	94	34.0	34.0	
88	22.7		36.0	36.7	36.7	900	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	30
88	24.0		37.3	38.0	38.0	38.0	38.0	38	38.0	38	38.0	38	30.0	38	38	38
88	24.0		37.3	38.0	38.0			• •	• •	•			38.0	•	38.0	38
88	24.0		30	• •	38	• •	38			• •	38.7	200	38.7		38.7	80
88	24.0	37.		900			Mark Comment	6.0	101.5	90.0	39.3	39.3	39.3	39.3	39.3	60
88	26.0		÷:			;	1		33	•	41.3		a		2 0 1	7,
88	30.7		48	• •	8 6	9 6	9 5			•	5.8.7				1.84	9 5
88	33.3		50	• • •	50.	50		59.3	59		59.3	59.3		59.3	59.3	20
88	34.7		90		68.	68	68.		68.		68.0				68.0	68
88	35.3		200	0	80.7	80.7	80.7	80.7		80.7		88.7	80.7	80.7	80.7	80
88	36.7		92.		96.	96.	96.	96.7	9		96.7		96.7	96.7	96.7	96
88	36.7	85.3	200	96.0	99.3		100.0	22	-	100.0	100.0	00	100.0	00	10000	900
80	36.7	85.3	200	CO BARRIOR	99		000	100	22	00		00	. Oz .	88	100.0	88
							Company of the Party of the Par									

HOURS 108.T.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							SIV	IIBILITY (ST.	VISIBILITY (STATUTE MILES	ES)						
	VI 5	9 11	S AI	7 4	£ 41	> 2%	2 7	%1 X	71 2	- 4	% Al	* ~	N %	91/5 ≥	% Al	0 11
NO CEILING		::	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.9	47.3	47.3	47.3	47.3	47.3	47.3
VI VI 00081 00081		9	49.3	49.3	49.3	49.3	49.3	6.0	49.3	60.0		49.3	49.3	6.64	E . 04	49.3
14000		55		50.0	50.0		n 🗣z	50.0				50.0	50.0	50.	200	50.0
			50.0	50.0		50.0	20.0	000	50.0	50.0	50.0	2 2		50.		50.0
VI VI 000 000 000				51.3			5 ·	S				51.	51.3	51.		51.3
0000 AI AI				51.3	51.3	51.3	a. 45.	51.	51.3	51.3		51.3	51.3	51.3	52.7	51.3
VIVI 600 600		52.		54.7	54.7	54.7	54.7	54.7	54.7	54.7		54.7	54.7	54.7	54.7	54.7
3300		25		55.3	55.3	55.3	4 6	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
7 7 7 300 2000	4. 10.	55.	58.0	58.0	58.0	8.	58.0	58.0	58.0	58.0		58.0	58.0	20.00	58.0	58.0
71 Y 0081 0081		60.		69.3	63.3	63.3	6.69	63.3	6.69	63.3	63.3	69.3	63.3		63.3	63.3
VI VI 1200 1000	38.7	69.3		72.0	72.0		72.0	72.0	72.0	72.0			72.0	72.0		72.0
8 8 AI AI		82.	92.	92.0	92.0	87.3	87.3	87.3	87.3	87.3	92.0	92.0	92.0	92.0	92.0	92.0
71 VI		88.		94.0	94.0		; ;	94.0	94.0	94.0	99.3	99.3	99.3	99.3	94.0	94.0
905 1 VI	42.0	92.	98.	99.3	100.0	100.0	g. 🗣 🛊	100.0	100.0	100.0	100.0	10	100.0	100.0	100.0	100.0
98 23 24		92.	200	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
91 VI		92.	98.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

0

0

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

1

0

0

0

0

0

0

0

0

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (PS.T.)

E 07	1 5				> 2%								> 5/16		
CEILING	81	\$ AI	*	AI		~ N	2	2	Ā	* Al	* Al	2		× Al	٨١
18000 + 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		82.0	82.0	82.0	82.0	82.0	62.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.
14000 12000 50 50 50 50 50 50 50 50 50 50 50 50	18	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.
10000 50 8000 52 7000 52 8000 52 9000 52	23	86.7	200	86.7	86.7	86.7	86.7	86.7	86.	86.7	86.7	86.78	86.7	86.7	86.
8000 52 8000 52 8000 52	200	88.7	200	88.7	808.7	88.7	60	89.7	88.7	88.7	89.3	88.7	88.7	88.7	88.
5000 52	000	90.7	90.7	90.7		90.7	90.7	90.7	90.7		90.7	90.7		90.7	90.
	90	91.3	91.3	91.3	91.3		91.3	91.3	91.3	00	91.3	91.3	91.3	91.3	91.
	16	92.0	92.0	00			92.	92.0	92.0	92.0	167	92.0	92.0	92.0	92.
3500 54	66	::	0.96	-	94.0	94.7		94.7		94.	00	94.7	94.7		94.
	22	94.7	94.7			:	95.	95.3	95.3	100	CONTRACTOR S	95.3	96.0	95.3	96.
	95.3	96.0		or			96.	96.7	6.	96.	6	96.7	نين	96.7	35
	28	99.3	98.7	99.3		100.0	100.0	100.0	100.0	100.0	-	-	100.0	100.0	100
	86	99.W	99.W	99.9	99.3	100.0	100.0	100-0	100.0	100.0	100.0	100	100.0	100.0	900
200 56	96	99.3	99.3	99.3		00	100.0	100.0	100.0	1	100.0	-	100.0	100.0	100
500 - 56 -	98	99.3	99.3	99.3		0.0	29	-	100.0	-	100.0	-	100.0	100.0	100
	98	99.3	99.3	99.3	99.3		100.0	-	100.0	100.0	100.0	1000	100.0	100.0	100
100 56.	86	99.3	99.3	99.3	99.3	100-0	100.0	100-0	10	100.0	100.0	100.0	100.0	100.0	100

0

0

HOURS &LA T

PERCENTAGE FREQUENCY OF OCCURRENCE

0

0

0

0

0

0

CEILING VERSUS VISIBILITY

-

TOTAL NUMBER OF OBSERVATIONS

A ≥ 5/16 Al 85.3 Al N N -AI VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) AI Al Al 1 2% M Al 1 14 41 2 NO CEILING VI VI 00091 00091 CEILING (FEET) Y 1400 VI VI 000 000 000 200 2000 4500 4000 4000 3000 2000 1500 1200 88 80 ¥ 20000 88 88 88

MAIA

ALAI

MIM

14 14

0

MIAI

AIAI

0

AIAI

MINI

0

MAIA

0

0

13-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0

0

0

0

0

HOURTES T.)

E 0 0 5703

CEILING							VIS	IBILITY (ST	VISIBILITY (STATUTE MILES)	ES)						
	2	۰ ۸۱	\$3 Al	7	6 VI	≥ 2%	7 2	۲۱ کا	½1 ≤	<u> </u>	* 1	*	N %	≥ 5/16	N N	٨١
NO CEILING	40.0	57.3	58.0	58.0	58.0	58.0	58.0	58.0	0.88	58.0	58.0	58.0	58.0	58.0	58.0	58.0
		1		•	•	đ,		3	9	*	3	•		•	•	
2009		A	6	•	•	•			3	000		3	•	•		
		1	5.	•	•	is.				•			•			
12000	M	000	0.00	61.5	010		010	010		01.0	200	-	•.	•		42.0
	2010		43.0	2000	45.0	•	· a	750	3	43.0	64	62.0	•			5
1 A 1			620	60.0	42.0	62.0	0000	62.0	9 0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
1000	41.3		62.7	62.7	62.7	62.7		62.7		62.7		62.7		-	62.7	62.7
7000		62.7	63.3	63.3	63.3	63.3	63.3	63.3	69.3	63.3		63.3	63.3	63.3	63.3	63.3
0009 4	42.0	62.7	63.3	63.3	63.3	63.		63.3		63.3	63.3	63.3	-		63.3	63.3
Man I	4.5	65.3	96.0	66.0	66.0	0	66.0	66.	66.0	66.0		9			66.0	66.0
V 4500	44.0	65.3	66.0	0.00	66.0	66.		66.	66.		•	66.0		99		66.0
	44.0	65.3	66.0		66.0	66.		66.	66.	66.0				66.	99.0	66.0
3900 A	44.7		66.7	66.7	66.7			•	66.	66.7			. •		66.7	66.7
	46.7		66.7		66.7	66.		66.	66.					525		66.7
7 2500	40.0	67.3	68.0	68.0	68.0	68.		68.	68.	68.0	68.0	68.0	68.0			68.0
200			68.7			68.		68	68.	•				68.		68.7
VI .	47.3	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0		70.0	70.0		70.0	70.0
8 /			21.3		•			1	7					11.	4	71.3
25	48.7	71.9	72.0	72.0	72.0	72.0	•	72.0	72.0	72.0	•	72.0	72.0	72.0	72.0	72.0
		1			3	2 2	500	2	2 5		80.7	2 6			80.0	
141			84.1	24.7	246			84.7		84.7		84.7	84.7	84.7	84.7	
1	51.3	89.3	90.0	0.06	0	90.	ċ	90	90.	0	0	0	0	0	ò	
8	51.3	C. Philippi			93.3	93.		0		93.3	93.3		3.	93.3		
8	51.3	95.3	96.7	•	97.3	97.3	-	97.3	-	97.3	-	97.3	97.3		-	97.3
	51.3	10350	99.3	100.0	100.0	3	100.0	9	100.0	100.0	d		0	0	100.0	100.0
88 AIAI	51.3	97.3	90.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1000-0	100.0	100.0
8	51.3		99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	51.3	97.3	99.3	100.0	000	100.0	10000	000	100.0	100.0	100.0	10000	100.0	100-0	100.0	100

TOTAL NUMBER OF OBSERVATIONS

0

3

O Al

≥ 5/16

2 A

CEILING VERSUS VISIBILITY

0

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

9

88

88

* % Al 65.8 65.8 66.8 66.8 PERCENTAGE FREQUENCY OF OCCURRENCE _ ^I VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) 71 7 7 12 ۲ ۸۱ Al AI N AI 9 4 7 7 7 7 7 45.6 388 43.8 40. (FEET) VI VI 00091 Y I Y 1 900 3000 2000 88 2000 500 88 88 8 8 8 88 AIAI ALAI AIAI AIAI ALAI

0

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS CEST

5703

		NF	FF	1	ME	MO	0 0		**	*	010	-	91	**	7	44	99
	AI O	65	10	53	25	22	73	55	22	20	==	88	25	97.	86	25	000
		NI	-	-	mc	WO	0 4	8 4	1	40	ME	41	95	*		34	00
	N N	20	50	70	25	22	27	25	22	2 8	1 4	88	200	97	80	25	88
		NF	-	-	mc	MO	-		44	40	-	-	-	44		**	55
	\$/16	200			0-	22	m 4	-	7.0		-:				98.	99.	00
	Al	0	0	00	2	2		"	r	2 00	0000	80	00	00	00	00	-
	%	21											0 10			L	99
	Al	9	25	60	25	22	73		75	208	6 6	88	00	100	20	20	88
		NF	-	-	mc	MO	00		**	40	9 10	30	010	**	-	44	**
	*	20	77	50	25	72	52	10	22	20	18	88	60	100	20	20	22
		NF	-	F-4	m C	mo	00		44	40	MW	4 m	0 4	44	~ 4	**	**
	× N	5		-	0-	20	m 4	10	72	9.0	-		90		90	00	99.
	٨١	0	04	000	2	~	~	~	~		~ ~	20	00	00	00	00	00
	-	21									6.2		9 4				
S	Al	0	0	5	200	72	5	15	20	200	8	800	93	00	80	000	66
VISIBILITY (STATUTE MILES)		NI	-	-	mc	mo	0 0	100	44	* 0	-	44		44	-1	**	**
35	7 1%	50	25	5.5	0:	22	73	10	70	9.0		88	93	97	86	60	66
STAT		NF	-		000		0.00	m 4	44	* 6	00	40	40	4 4	-3	44	3 3
14	1%	20		-		2.0		-	-0		-				80	0.0	
1	Al	•	0	000		~	**			- 4			00	00	00	00	00
VIS	2	20		7			94		*	*	.00	30	0 5	3 4	7.	3 4	* *
	Al	65	20	50	25	72	5,	5	25	2 8	8	88	60	97	80	66	66
		NF		-	m 0	MO	-0 00	6		40	3	*	9 50	44	4	44	4.4
	2 2%	20	25		0:	22	m .	20	20	0 0		88	68	2.0	98	66	66
		75	-	~	m c		.0 =			+ 0		30	00	4.9	- 4	33	3 3
	M			-	ė-	20	6	-	-0		-,				80	00	
	~		0	0				rr	25	200	œ œ	00	00	00	6	00	
		25				40	9.	8	**	4.0	6.5	4.	.00	4.	.1	.,	
	Al	5	2:	53	25	25	73	SE	22	2 8	8 2	88	93	20	00	86	98
		10	-	-	mc	mo	-0 =	Ø 4	44	40	m 10	40	0 10	* 4	-1	FF	FF
	Al	20	-	-	o-	22		90	2	•	-	22	200	2.5	8 8	22	2 2
		0			-	00			22		00			5.5	-16	-	00
	•	3.	:												9	96	
	Al	3		0	-			2.5	22	2.			00	00	00	00	00
	2	~	0.0	0.0	20	-	5.	-	-0	0.	-	0.4	00	20	0.4		9.4
	AI	*	9	7			::		F. 0	99	200	35	200	34	34	34	30
		0							-200								
CEILING	E	2 8	90091	12000	88	98	98	38	330	2000	900	88	88	88	88	88	80
1	E	NO CEILING	AIAI		No.	AIAI		72.00		MIA	Part Daniel	AIAI	ALAI	AIAI	ALAI	ALAI	ALAI
	3. 3.	2											100				

CEILING VERSUS VISIBILITY JAN 68

NAVWEASERVCOM

0

0

0

0

0

TOTAL NUMBER OF OBSERVATIONS

(0 **CEILING VERSUS VISIBILITY**

1	*	1
	-	ŀ
ì		1
I		١
1		l
		1

TOTAL NUMBER OF OBSERVATIONS

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEE)	2 1	o Al	8 11	AI AI	e Al	Y 2%	7 2	¥1 ¥	¥1 VI	- AI	* AI	*	Z Al	≥ 5/16	N AI	Al
NO CEILING	36-1	36.	36.0	96.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	36
VI VI 00091			9	00	000	000	000	000	0.00	0.00	900	0.0	000	0.09	0.09	95
1 1400	37.4	0	9	60.7	60.7	00.	600	60.7	00.	60.1	60.7	60.	00	60.7	60.7	9:
	38.1	200	63.2	63.5	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	23
VIVI 000 000 000	30	2.53	65.0	65.8	65.8	6.5	6.5.0 8.4	65.8	65.8	65.8	65.8	65.8	65.8	8.59	65.8	65
9009 AI AI		65.6	66.5	66.5	66.9	64.5	66.5	66.5	66.5	66.9	66.5	66.9	66.5	66.9	66.9	37
900 41 A1 A1	1	-	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	57
3000	00	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67
17 17 2000	6.1.9	1.0	70.3	70.3	70.3	70.3	70.3	70.3	Company of the Control of the Contro	70.3	70.3	70.3	70.3	70.3	70.3	70
981 YI YI 981 XI	43.2	2.5	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.
Y 1200	1		85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	8.0
8 8 AI AI	4.84	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91
909 AI AI	4.84	93.6	95.5	95.5	5-56	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95
1 V I V 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V	49.0	TO SECURE THE PARTY OF THE PART	98.1	98.1	98.1	98.1	1.86	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98
1717			1.86	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	88	99.4	99.4	66
80		95.5	98.1	98.1	1.86	98.7	4.66	4.66	4.66	4.66	4.66	400	99.4	99.4	99.4	66

0

0

0

0

HOURS (LS.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
	0 1	۶ ۸۱	8 4	AI .	E AI	Y 2%	N N	¥1 Y	¥1 Y	Ä	¥ ∧I	*	X AI	≥ 5/16	× AI	0 11
NO CEILING	26.5	91.0	54.8	55.5	56.1	58.1	56.8	56.8	56.8	56.8	56.8		50.0	56.8	56.8	56.6
N 18000 N 1 16000	27.1	92.9	57.4	58.1	58.7	58.7			59.4	59.4	4.65	59.4	59.4	59.4	59.4	59.4
Y 14000	27.1		58.1		59.4			60.0	000	60.0				00	000	000
1 10000 1 4 9000	28.4	54.0	59.4	60.0	60.7	60.7	61.3		61.3	61.3	61.3	61.3		00		61.3
Y Y 8000	28.4	55.5	60.0	60.7	61.3	61.3		61.9	61.9	61.9	•.	61.9	61.9	99	1.	61.9
V V 5000	6.	*	61.3	61.9	63.2	63.2		63.9	63.9	63.9	63.9	63.9	63.9		63.9	63.9
Y 4500			61.9	62.6		m m		64.5	64.5	64.5		64.5		00		64.5
12 3000	29.7	8	62.6	63.5	64.5	64.5			65.2	65.8	50	65.8	65.2		3.5	65.2
Y 2500		60.	64.5		7.0	7.	-	71.0	71.0	71.0	7:	7.		67.	7.	67.7
		63.	72.9	• •	-:	-:	200	20		The second second	20	20	72.3		20	
VIVI VIV	76.0	22.0	17.5	0.00	100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 2 2 3	80.00 80.00		87.9	89.0	87.7	9 9 9 9	87.1	87.1	81.3
	36.8		87.1	98.0	90.3	. 0 -	92.3	- 22	92.9		- 22	- 22	92.3	92.3	92.3	
	36.0			- 2	92.9	2.	30	95.5				93.4	95.4			95.9
8 8 N N	36.8	83.9	::	92.3	94.2	94.2	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.4	98.7
VIVI 80	36.8	83.9	91.0	92.3	94.2	94.2	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
	Section 1		10/8			the second			The second second		100000					The same of

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

800 E

89.0

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2 5/16

Al

	N N	67.1
S	-	
NTUTE MILE	¥1 VI	57.1 67.1 67.1
SIBILITY (STATUTE MILES)	N V	67.1
1 3	-	-

67.1 67.1	-	73.	73.	73.	100			in .													
7	7	73	73	73	76	76	76	17	1		0	0	0	0	-	-	-	0	-	*	0
7	1		3		7	7	7	-	~		-46	-	Stand .	Service .	1000	PHONES:	7	100	grand .	-	-
	9	0	100									-	2	8	-	0	8	-	5	5	
-	-		-0	0	-	2	8	-	-	-	3	-	a	0	(1)	N	-	0	O	N	-
-	T		•	1	4.3														•		
	P	M	9	-	E	0	F.	-		0	9	0	9	0		w	7	0	2	*	9
01	7	-	-	-					-	-	-	-	9	æ	80	•	8	~	6	0	6
7	٠	0	4	0	-	-	•	-	-	-	4	4	9	0	1	N	-	0	-	N	-
	1	-		₩.	₽.	*	9	•		-		-	A	-		-	J	-			
0	7	-	7		7	~	r.	-	1	7	7	-	B	8	8	8		8	0	6	6
-	+	-				-		-			-	-	-		-	N	K	-		N	_
					22																200
-		m	-	M	36	9		-	2	93	0	0	0	0	-	m	-	0	1	*	-0
01	7	-	-	-	1	7	-	-	-	-	-	-	-	æ	00	00	00	0	0	9	0
-	\$	0	0	-0	-	00	8	4	-	-	3	3	0	0	-	N	P	0	4	N	-
. 100	_	_		100		- 5	- 38	74				-	2	-			_	100		-	19
7	2	2			H	H	F	48		2	2	5	2	2		-		5	2	X	7
	1						57					al loss									
7	Ť	0	9	9		8		7	Į,		1	4	9	0	4	7	b	0	F	2	
-	4		7		7	9	Ŧ				0	0		0		10	N	0	-		
0	+	-	-	-	1	~	7	-	-	-	-	-	-	8	8		00	00	0	0	0
-	0	0	9	0	-	00	-	*	-	-	3	-	d	0	-	N	-	-	0	0	3
	P		3		- 6		3						•		•			•			
C.	T	-	H		K	K	K			8	5	5	9	2		-		8	3	9	-
	1				33		N	Cash C	3		1										
	-	-	100				100		100	-					300	100	197	5150 E		100	21/2/20
	L		ş.	4	7	~	曑	•	₽-	•				-		-	•	-		-	
-	7	-						-	1	-	7	7		-	-			8	0	0	0
~	4	0	d	0			-	0	0	•	8	8	-	-	00	-	4	0	3	0	O
					H		100		B												
-	œ.			0	20		K	2		1		4	-	-	-0		~	-	-	0	3
	4		9				-	-	-	-	-	-	7	-	-	-	4		-	-	
-	o.	0	0	0	-	5		-	5	F	9	0	P	-	9	0	8	-	3	N	N
-	1	-	36.	gr.	鄆	-	•	7	7		-	-	-	-				-		-	
3	z	-	-	**	٠	-	•	10		5	3	5		5	2	1	N.	2	-	-	
	.7 63.2 64.5 67.1 67.1 67.1 67.1 67.	0 69.0 71.0 73.0 73.0 73.0 73.0 73.0 73.0	9 69 0 71 0 73 0 73 6 73 6 73 6 73 6 73 6 73	9 69 0 71 0 73 0 73 0 73 0 73 0 73 0 73 0 73	9 69 0 71 0 73 6 73 6 73 6 73 6 73 6 73 6 73 6 73	9 69 0 71 0 73 6 73 6 73 6 73 6 73 6 73 6 73 6 73	9 69 0 71 0 73 6 73 6 73 6 73 6 73 6 73 6 73 6 73	9 69 0 71 0 73 6 73 6 73 6 73 6 73 6 73 6 73 6 73	9 69 0 71 0 73 6 73 6 73 6 73 6 73 6 73 6 73 6 73	9 69 0 71 0 73 6 73 6 73 6 73 6 73 6 73 6 73 6 73	9 69 0 71 0 73 0 73 0 73 0 73 0 73 0 73 0 73	9 69 0 71 0 73 0 73 0 73 0 73 0 73 0 73 0 73	9 69 0 71 0 73 0 73 0 73 0 73 0 73 0 73 0 73	9 69 0 71 0 73 6 73 6 73 6 73 6 73 6 73 6 73 6 73	9 69 0 71 0 73 6 73 6 73 6 73 6 73 6 73 6 73 6 73	9 69 0 71 0 73 6 73 6 73 6 73 6 73 6 73 6 73 6 73	7 69 2 64 5 67 1 67 1 67 1 67 1 67 1 67 1 67 1 67	7 63 2 64 5 67 1 67 1 67 1 67 1 67 1 67 1 67 1 67	7 63 2 64 5 67 1 67 1 67 1 67 1 67 1 67 1 67 1 67	7 63 2 64 5 67 1 67 1 67 1 67 1 67 1 67 1 67 1 67	63.9 69.0 71.0 73.0 73.0 73.0 73.0 73.0 73.0 73.0 73

-
TIONS
L
-
\leq
=
-
>
~
<u></u>
OBSERV
*
-
O
-
ō
v
-
UMBER
m
8
3
=
_
7
-
-
-
OTAL
~
O
=

NAVWEASERVCOM

NO CEILING

CELLING (FEET)

MIM

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (PS. T.)

-

CEILING							VIS	IBILITY (ST	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	5 41	9 41	S AI	4	N AI	1 2%	2 4	YI %	%1 A	Ā	X Al	*	N %	≥ 5/16	N N	0 1
NO CEILING		65.8	71.6		76.1	76.8	77.4	77.		77.4	77.4	77.4	77.4	77.	77.4	77.4
20000	4	41.0		•	1			63		+		3	83.9	83		83.9
1800 1800	35.5	71.0	77.4	0.00	82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
	35.5	71.0	17.4		•	-	83.9	83.			4	3.	83.9	83.	-	83.9
≥ 14000	35.5	71.0	77.4		82.6	3	. •	83.	83.9	83.9		83.9	3	83.9		83.9
≥ 12000	36.8	72.9	79.4	81.9		85.2	8 K . B	85.8	85.8	85.8	3	3	85.8	85.	•	85.8
10000	37.4	73.	80.0		85.2		9	86.		86.5	;		86.5	20	86.5	86.5
0006 AI	37.4	73	80.7	83.2	85.8	86.5		87.	87.1	87.1	87.1	87.1		87.1	1	87.1
7 8	38.1	76.	81.9			1.	88.4		88.4	88.4	8		88.4		88.4	88.4
1 7000	38.1		81.9	84.5	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4		88.4	88.4	88.4
	38.1	100	81.9		87.1	87.7		88.	88.		8			8	8.	88.4
9006	38.1	78.	82.6	85.2	87.7	88.4		8	89	89.0	89.0	89.0	89.0	89.0	89.0	89.0
	38.7	1,000	83.9		0	6		-06	90-	0			90.	90.		90.3
8	38.7		84.5	17.7	90-3	91.0		91.		91.6				6	91.6	91.6
	40.0	11100	85.8		-				92.	2.			92.	92.	92.9	92.9
3000		10	86.5		92.3			93.	93.	93.6			93.	0	3	
14.3		79.	87.1	90.3		3	94.2	.46			. 46	2.46	94.	. 76		94.2
Y 2000		.08	86.4		94.2	4.			95.	93.5	95.		95.	0	95.5	95.
0081 Y	41.9		89.0	92.3	94.8	95.5		96.	96.	96.1	96.1	96.1	96.1	96.	96.1	96.1
		83.	91.6		97.4		98.7	- 2	98.			98.7		98.	-	98.7
N 1200		63.9	91.6	94.8	97.4	98.1		98.7	4	98.7				0	98.7	98.7
	42.6	84.5	92.3		98.7		100.0	-1750	100.	100.0		0	0	-	100.0	100.0
8 41		84.5	92.3	96.1	98.7	4.66		100.0	100.0	100.0	100.0	10000	100.0	10000	10000	100.0
			92.3		98.7	99.4		100	100		0		0		100.0	100.0
				96.1	98.7	4.66		100.	100	100.0	100.0	10000	100.0	100.	10000	10001
009 AI				96.1	98.7	4.66		2	100.		0	00	00	-		
008 4				96.1	98.7	4.66		100.0	100	100.0	100.0	100.0	00	-	100.0	100.0
N 400				96.1	98.7	4.66		100.0	100		0	00	100.0	100.	100.0	100.0
300	42.6	84.9	92.3	96.1	98.7	4.66	100.0	10	100.	100.0	100.0		100.0	-	10000	100.0
1 200				96.1	98.7	99.4		100.	100.		•	100.0	00	-	100.0	100.0
91 81	42.6	84.5	•	96.1	98.7	4.66	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	42.6	86.5		96.1		90.4	10000	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

0 000 0 0 0 O 0 0 0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING 20000 1800			-													
	2	0	N N	AI	e Al	1 2%	N Al	۲۱ ۲۰	7 1	<u></u>	X Al	* AI	Z AI	≥ 5/16	Z Al	AI .
	0		72.9	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.	75.5	75.5	75.5	75.5	25
		00	81.3	95.0	83.9	• •	•	• •	83.0	83.9	00 0	∞ «		• •	83.9	63
2 12000	0	10	81.9	83.5		3.00	3 4	• •	**		8 8	00 CO	4.00	84.8	8 8 8 4 8 8 4 8	8 8 2 8
0000 111		NO	84.8	8.5.8	87.1		87.1	87.1	87.1	87.1	87.	87.7	87.1	87.1	87.1	87.
9 000 4	0.0	Ne	86.5	87.7	89.0	89.0	89.0	89.0	89.0	89.0		89.0	89.0		89.0	88
\$ 6000 ¥	4.5	0.	87.1	88.4		89.7		89.7	89.7	89.7	89.7	91.0	91.0	91.0	89.7	66
4500		0 1	90.3	91.6	92.9		92.9	92.9	92.9		92.	92.9	92.9	92.9	92.9	92
2 3000		04	92.9	94.2	95.5		95.5	95.5	95.5			95.5	95.5	95.5	95.5	95
2500	Section 14	00	94.2	95.5	96.8	96.8		96.8	96.8	The second second	6	96.8		96.8	96.8	96
0081	50.3	94.8	1.96	97.4		98.7		98.7	98.7				98.7	98.7	98.7	
1200			96.8	98.1	99.4	9.66	99.4	4.66	4.00	99.4	99.4	99.4	99.4	99.4	99.4	88
800	-:-	10 M	96.8	98.1	99.4	99.4	4.66	4.66	4.66	99.4	99.4	99.4	99.4	99.4	99.4	80
908 808 80 80			96.8	98.1	99.4	4.66	4.66	4.66	4.66	99.4	99.4	99.4	99.4	99.4	99.4	66
900		20.00	96.8	98.1	99.4	100.0		99.4	99.4	00	100.0	100.0	100.0	100.0	1000	60
300		20		98.7	100.0		0	100.0	00	100	100.		100.0	100.0	100.0	88
80			96.8	98.7	100.0	00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	29

....

5703 CEILING VERSUS VISIBILITY

0

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

Al 2 5/16

٨ł

Al

% Al

AI

¥ 7

7 7

Ä

2 2%

Al

Al

AI

A

2

(FEET)

NO CEILING

≥ 2000

VISIBILITY (STATUTE MILES

92.9

91.6

91.6

91.6

91

91.6

4500

2000

92.9

91.0

91

92.9

98.1 96. 96.8 91.6 91.6 92.9 92.9 8.96 98.1 96.1

98.1

96.8

8.96

96.1

94.

98.1

98.1

96.

96.8

8.96

98.

98.1

98.1

96.1

2.46 96.1

98.1

4.66

4.66

4.66 98.1

99.4

00.0100.0100.0100.0100.00 TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

0

0 0 0

9000

ALAI

900

12000

2500

AIAI

3000

ALAI

1800

AI AI

1200

ALAI

88

AIAI

88

ALAI

88

AIAI

0

80

ALAI

88

AI AI

O Al

N N

2 5/16

X Al

٨١

٨I

7 1%

۸I

2 2 1/2

N Al

1

11

V Al

2

CEILING (FEET)

NO CEILING

VISIBILITY (STATUTE MILES)

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

CEILING VERSUS VISIBILITY

CEILING VERSUS VISIBILITY

3500 2500 450 400 400 400

AI AI

86.5

1800 1200 88 AI AI AIAI

88 88 AI AI

MINI ALAI

88 MINI AIAI NAVWEASERVCOM



















9000

























-

0 Al

5703

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALAMEDA, CALTEGRNIA

VISIBILITY (STATUTE MILES)

M

Al

2

NO CEILING

16000

14000

9000

AI AI

0

2000 7000

0

9000

AI AI

0

92.4 2 5/16 Al 80.0 7 1% A M Al VI

3500

AIAI

0

2000

ALAI

0

250 450 450 450

AI AI

1500

AI AI

98

ALAI

88

AIAI

88

AIAI

88

AIAI

92.4

86.8

80

ALAI

88

AI AI

CEILING VERSUS VISIBILITY

-	
OBSERVAT	
W	
-	
0	
6	
200	
=	
3	
NUMBER	
•	
~	
TOTAL	
5	

VISIBILITY (SERV.) VISIBILITY (S. 12%) 12. 12% 12. 1	VISIBILITY (STATUTE MILES) VOICE & CE &		STATION NĂN	PERCEN	PERCENTAGE		FREDLIENCY	C		POCE IRRENCE						
S. 23 23% 22% 22 1% 21% 21% 21 2% 2% 2% 2% 25% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2%	CO. 61.3 62.0 62.0 62.0 62.0 62.0 62.0 62.0 62.0) (i	FROM			ERY	TIONS	(KENCE)					SUNON	2.1.9
2.4	2.4 ≥ 3 ≥ 2% ≥ 2% ≥ 2						VISI	BILITY (ST.	ATUTE MILI	ts)						
5.3 66.7 67.3 67.3 67.3 67.3 67.3 67.3 67	5.3 66.7 67.3 67.3 67.3 67.3 67.3 67.3 67	VI S								-					a comment	O AI
3 66.7 67.3 67.3 67.3 67.3 67.3 67.3 67.	3 66.7 67.3 67.3 67.3 67.3 67.3 67.3 67.	57	m 0	0 .	61.3	62.0	62.0	62.0	62.0	62.0	62.0	67.3	62.0	62.0	62.0	62.0
3 68.7 69.3 69.3 69.3 69.3 69.3 69.3 69.3 69.3	3 68.7 69.3 69.3 69.3 69.3 71.3 71.3 71.3 71.3 71.3 71.3 71.3 71	62,	00	65.3	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
3 70.7 71.3 71.3 71.3 71.3 71.3 71.3 71.3 71	3 70-7 71-3 71-3 71-3 71-3 71-3 71-3 71-3 71	63	m	67.3	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
76.0 76.7 76.7 76.7 76.7 76.7 76.7 76.7	7 76.7 77.3 77.3 77.3 77.3 77.3 77.3 77.	65	9	73.0	70.47	6 1 2	71.3	7.37	4.4	71.3	7.47	1	1	1,1	7.7	
7 74.7 76.7 77.3 77.3 77.3 77.3 77.3 77.3 77	7 76.7 77.3 77.3 77.3 77.3 77.3 77.3 77.	68	9	72.0	74.0	74.7	74.7	76.7	76.7	74.7	74.7	74.7	76.7	76.7	74.7	1
7 76.7 77.3 77.3 77.3 77.3 77.3 77.3 77.	7 76.7 77.3 77.3 77.3 77.3 77.3 77.3 77.	55	01	74.0	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
3 78.0 78.0 78.0 78.0 78.0 78.0 78.0 78.0	3 78.0 78	2	1	74.7	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	7.3	77.3
3 80.0 80.7 80.7 80.7 80.7 80.7 80.7 80.7	3 86.0 80.7 80.7 80.7 80.7 80.7 80.7 70.7 70	70	7	74.7	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
3 80.0 80.7 80.7 80.7 80.7 80.7 80.7 80.7	3 80.0 80.7 80.7 80.7 80.7 80.7 80.7 80.7	FF	10	75.3	78.0	79.3	78.7	700	79.7	78.4	70.7	70.3	70.2	79.3	79.3	79.7
7 83.3 85.0 82.7 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83	3 86.0 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86.7	72	F	77.3	80.0		80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
7 83.3 86.0 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86.7	3 86.0 86.7 86.7 86.7 86.7 86.7 86.7 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0	7.5	- 6	80.0	825.7	83.2	825	83.7	83.2	800	83.3	83.3	83.3	82.3	83.2	83.2
7 83.3 86.0 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86.7	3 85.0 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86.7	78	10	82.7	85.3			86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
3 91.3 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0	3 91.3 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0	78	-	83.3	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
3 91.3 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0	3 91.3 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0	200	FF	83.3	0 10	000	0000	000	000	880	98.0	000	950	9300		88.0
7 87.3 91.3 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0	3 91.3 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0	82		87.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0		92.0
3 88.0 92.0 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7	.0 92.0 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7	82	1.	87.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
.3 94.0 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7	3 94.0 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7	83	~	88.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
0 95.3 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0	0 95.3 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0	\$	1	89.3	0.46	7.46	7.46	4.4	94.7	4.7	1.46	4.7	94.7	94.7	94.7	94.7
0 97.3 98.0 98.7 98.7 100.0100.0100.0100.0100.0100.0100.010	0 97.3 98.0 98.7 98.7 100.0100.0100.0100.0100.0100.0100.010	80	200	90.0	94.7	95.3	95.3	95.3	95.3	95.3		95.3	95.3	95.3		95.3
.0 92.0 97.3 98.0 98.7 98.7 98.7100.0100.0100.0100.0100.0100.01	.7 98.7 98.7100.0100.0100.0100.0100.0100.0100.01 .7 98.7 98.7100.0100.0100.0100.0100.0100.0100.01	2	10	200	01.0	900	000	98	0 0	90		98.0	98.0	000		080
.0 92.0 97.3 98.0 98.7 98.7 98.7100.0100.0100.0100.0100.0100.0100.010	0.0100.0100.0100.0100.0100.0100.01	86	0	92.0	97.3	98.0	98.7	98.7	98.7		100.0	10000	00.0	100.0	100.0	000
	0.0100.0100.0100.0100.0100.01	86	9	92.0	97.3	98.0	98.7	98.7	98.7	100.0	100.0	00.0	10000	100.0	100.0	100.0

-

5703

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0

CEILING							VISI	VISIBILITY (STATUTE MILES	ATUTE MILI	(2)						
	VI 5	9	N AI	41	8 41	> 2%	2 A	YI 72	¥1 Y	-	× AI	*	Z AI	≥ 5/16	N N	0 11
NO CEILING	36.			61.3	62.0	62.0	62.7	62.7	62.7	62.7		62.7		2		62.7
20000	37.		410				66.0			•	3			9	0.00	66.0
≥ 18000		State.		64.7	65.3	1000				66.0				;	66.	66.0
1000	W.	AND .	61.	64.7	65.3	65.3	66.0		66.0					66.0		66.0
	200	400.	MONTH.	64.7	65.3	65.3				6.				9	66.	66.0
Z 12000		100 K.		66.7	67.3	67.3			68.0	68.0					68.	68.0
1000		1.02	10,000	68.7	69.3	69.3				0	0			0	70.	70.0
000 AI		888		68.7	69.3	69.3	70.0	70.0	70.0	6			2		70.	70.0
	20	1996.	10000	70.0	-	71.3			72.0				72.0			72.0
> 7000		ans		70.0	71.3		72.0		72.0	2				2	72.	72.0
0009 ~		2000	69.	72.7		74.0				4.						74.7
> 2000		2025	70.		74.7		75.3		75.3	75.3				75.3	75.3	75.3
	200	1000	1000	3.		74.7				75.3				75.3	75.3	75.3
1 4000	ATTES.	2006.	20.	3	74.7	74.7	75.3		75.3	75.3				5		75.3
	44.7	1000	72.	75.3	76.7	76.7	:	77.3	77.3		77.3	77.3	77.3	77.3	77.3	77.3
> 3000			75.	8.	80.0			0	0	80.7	0					80.7
> 2500		Section 2	76.	79.3	•	80.7	81.3		81.3	-				1.		81.3
> 2000		100 M	78.	-	2.					84.0				*		84.0
V 1800		200	78.		3.	83.3			84.7	*						84.7
			79.	83.3	85.3				.0	86.7	;		86.7		86.7	86.7
> 1200			81.		87.3	87.3		8.	88.7	88.7			88.7	88.7	88.7	88.7
V 1000		100.0	83.	87.3		89.3	å	6	90.7	Tibered.	0		90.7		400	90.7
% AI			84.	88.7	90.7	90.7	92.0			•			92.0		92.0	92.0
		-	84.		•	90.7	2.	2		92.0	2			2.	2.	92.0
70			84.				3	2	•	2.		5.		92.0		92.0
N 400		200	86.		2.	92.7	0.76			94.0			94.0		94.0	
98		Million of	86.		92.7	2.			0.46	94.0	0.46			*	94.0	94.0
VI 84	-	-	86.				3	3	3.		•					96.7
88	51.3	92.7	86.7	90.7	94.7	94.7	96.0	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	
	-		90.	90.7	:	74.7	•			97.3	6.16	-	61.6			97.3
8	51.3		86	200.7	24.7	1.76	0.96		96.0	97.3	97.3		97.3	-		98.7
	4		80.	200	3	74.	•	0	•	97.3	97.0	97.3	61.4	97.3	98.0	100.0

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

0

1

HOURS (LS.T.)

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MILI	ES)						
(FEET)	2	% Al	\$ 1	AI AI	E AI	N 2%	2 7	¥. Y	¥1 ×1	-	* Al	*	Z AI	≥ 5/16	N N	0 Al
NO CEILING	31.3	:			58.0	59.3	6		0		60.	0	.0	600	.00	60
20000 ×	32.0	-99	d	55.3			62.2				63.	63.3		63.	63	66.
≥ 18000	32.0		50.7				63.3	63.3	63.3		63.	3	63.3	63.		64.
	32.0	46.		55.3	61.3	200	63.3				63.	63.3	3.	63.	63.	64.
	32.0	47.			2			64.0	64.0		64.	04.0		. 49	. 49	64.
≥ 12000	32.0	48.		58.0	64.0				66.0		66.		u. C	66.	1	66.
6 200	32.7	50.		-	5	9			67.3		67.		1	67.	67.	
> 3000 ≥	32.7	50.	34.0	59.3			-		67.3		67.	or .	1	67.	67.	68.
9008 Z	7.48	8	56.0	61.3	67.3	68.7	69.3	69.3	69.3	69.3	E-69	69.3	69.3		69.3	70.0
3116	35.3	52.	56.7						70.0		70.			0	70.	70.
0009 Z	35.3	52.	56.7	62.0					70.0		70.				70.	70.
	36.0	53.					:		71.3	71.3	71.			-	71.	72.
> 4500	37.3	54.	58.7	•			2.		72.7		72.		2.	72.	72.	73.
¥ 4000	38.0	55.			0				73.3		73.		3	73.	73.	74.
> 3500	38.7	2		65.3	71.3	•	74.0		74.0	74.0	74.			74.	74.	74.
	40.0	58.					3		76.7		76.		•	76.	25	77
2 2500	40.7	60.				8	.6		79.3		79.		.6	.64	U-NA	80.
> 2000	41.3	62.		73.3			2		82.0		82.		3	82.	- Alth	82.
≥ 1800	42.0	62.					2.	82.7	82.7		82.		2	82.	-	83.3
2 1500	44.0			76.7					65.3		100			5		86.0
2 1200	44.7	66.0	0	77.3	:				86.7							87.
000 A			2.		3.				88.0	•	(380)			8	3,140	68.
98 AI	***	6.00	2			8	.6	89.3	89.3	89.3	250		89.3	9.		90.0
	44.7	68.7		80.7	7.	6	0		90.7					0		
2 700	44.7	66.7	74.0				•		91.3		2.34			1.	3.3	92.
> 600	44.7	68.7	74.0	80.7		0	:	91.3	91.3	91.3			91.3	-		92.
98 4	44.7	68.7	74.7	81.3	88.0			92.0	92.0		1	92.0	92.0		1	92.
	44.7	68.7	74.7	82.0	89.3		94.0	94.7	94.7		94.7	•	95.3	3	3	96.
30	***	66.7	74.7	82.0	89.3	92.0	94.0	4.4	4.1	96.0	96.0	96.0	96.7			97.
	46.7	68.7	74.7	82.0	90.0		94.7	95.3	95.3		96.7	96.7	97.3	97.3	97.3	98.
8	44.4	60.7	74.7	82.0		92.7	94.7	95.3	95.3	96.7	96	96.7	97.3	97.3	97.3	
	44.7	68.7	74.7	82.0	90.0	92.7	94.7	95.3	95.3	96.7	96.7	96.7	97.	97.3	98.0	100.0





























0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING VERSUS VISIBILITY

Chilling							VISI	BILITY (STA	VISIBILITY (STATUTE MILES)	(S						
(FEET)	S VI	9 11	S AI	VI	e Al	> 2%	2 4	N 1 Y	2 1%	-	* AI	* 11	× Al	2 5/16	AI N	٨١
NO CEILING	30.	6.3	50.		58.7					60.7	0	.00		60.7	60.7	60.7
× 20000	30						69.7	63.3	64.7		64.	64.		4	64.7	
V 18000	32	3	36	0						3.	65.	65.			65.3	65.3
7 16000			5	60.7	63.3		0.49	64.7		66.0	66.	0				
		99	56.		64.7						67.	67.		1.		67.3
12000		50	58	64.7	67.3		. •			0	70.	70.		0		70.0
		83	90		. 3	0	0	71.3	1934	72.7	72.	72.		2.	72.7	72.7
8		2	9	X				. •	N.	72.7	72.	72.		2.	72.	72.7
		63	90					25				73.		3.	73.	73.3
111		53		68.0	71.3	71.3	72.0	72.7		74.0	74.0	~	74.0	74.0	74.	74.0
1		35	62.						74.	74.7		74.		*	1	
1 A I		1	62	68.7	Dr 3	72.0			74.	74.7		-		;	74.7	74.7
		3	0.000	69.3		72.7			75.			75.		75.	75.3	75.3
1 1			62	69.3	72.7	72.7	73.3		75.	-		75.		75.	75.3	75.3
	0	36	90	C	74.7	74.7			7		1000	77.		-		
38	£	58	67.	74.0	78.0	78.0	78.7	79.3	800	80.7		•		80.		80.7
2.34		9	10.	1	0	0	-		83.			83.	83.	•		83.3
141		19	72.			83.3			86.		;	86.	86.	86.	•	86.0
	44.0	04.0	72.7	79.3	83.3	8		84.7	86.0	86.0	86.0	86.0		•	86.0	86.0
1300		64	73.		3	5			.88			88.	88	88.	88.	
	44.7	66.	76.		88.7		C	6	92.	2.	92.	92.	92.	92.	92.	92.0
901	44.7	66	76.	84.7	90.0	90.0	91.3	92.0	-	93.3	93.3	93	93.	0	0	
18	44.7	66.	A Share	84.7					94.	:	94.	**		94.	94.	94.7
88	44.7	66		84.7	0	-	92.7		94.	:	94.	94:	. 46		94.7	
		66.	14000	84.7	0				94.	Of the last	:	16		730	94.7	4:1
141	***	99		84.7		91.3	92.7	94.0	95.3	95.3	3		5		95.3	95.3
		66.	1922.0.15	84.7		91.3		7:16	96.	96.7			96.7	-	96.7	96.7
8	***	9		94.7	90.0	92.0	94.0	96.0	97.3	98.0		98.7	98.7	98.7	98.7	96.7
	St. 5.	99	1/1400.000	84.7	0	92.7	7.76	96.7	98.	98.7	99.3	6.66	99.3	99.	99.3	99.3
3	***	9		84.7	90.7	92.7	94.7	96.7		98.7	99.3	6	•		99.3	99.3
	40.0	99	1500	84.7	90.7	92.7	7.07	90.7	•	98.7	66.3	99.3		99.		99.3
0	44.7	66.7	76.7	84.7	90.7	92.7	94.7	96.7	8	98.7	99.	99.3	100.0	100.0	100.0	100.0

NO CEILING

(FEET)

VI VI 00081 00081 Y 1 400

900 900 900 2000

AI AI

0

2000

4500

ALAI

3500

ALAI

3.

2500

1800

AIAI

1200

ALAI

88

88

88

NAVWEASERVCOM

80

88

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE

ALAMEDA. CALTEGRALA

(FROM HOURLY OBSERVATIONS)

5703 CEILING VERSUS VISIBILITY

TOTAL NUMBER OF OBSERVATIONS

0 N N 2 5/16 AJ AI × N 88.7 88.7 ~ VISIBILITY (STATUTE MILES) 7 7 7 AI 2 2% Al VI 4 AI AI NO CEILING VI VI 0003 0003 3500 2500 1500 1200 (FEET) V 1400 VIVI 508 999 88 88 88 88 80 900 ALAI AIAI AIAI AIAI AIAI

0

NAVWEASERVCOM

0

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALAMEDA, CALIFORNIA

0

0

0

0

CEILING VERSUS VISIBILITY

0

0

. 0 95.3 97.3 99.3 99.3 99.3 99.3 99.3100.0100.0100.0100.0100	TOTAL NUMBER OF OBSERVATIONS
99.3 9	
3 99.3	
99.3 99.	
97.3	
95.	

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	21	9 11	8 41	41	S AI	1 2%	2 4	VI Z	VI 71	Ä	× AI	* 1	22	≥ 5/16	N AI	٨١
NO CEILING	4.0	69.3	70.0	70.7	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
20007	44.7	71.3	1	73.3	74.7	74.7		76.7	74.7	24.7	14.7	76.7	76.7		74.7	16.
N 18000	***	71.3	72.7	73.3	7:.7		74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
	0.12	71.2	72.7	73.3	76.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.1
	45.3	72.7	SEC.	74.7	76.0		76.0	76.0	76.0	76.0		76.0	76.0	76.0	76.0	76.0
> 12000	46.0	74.7	1000	76.7		78.0			78.0		78.0		78.0	78.0	78.0	78.
1000		76.0	1000	78.0	79.3		70.3	79.3	79.2	79.3	79.3		79.3	79.3	79.3	79.
0006 A1				78.0	19.3	79.3	70.3	79.3	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.
538		1000	100	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
200	48.7	77.3	9 254	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7			80.7	80.7	
1		1000	VI.C	80.7	82.0		82.0		82.0	- 1	82.0				82.0	82.0
9000 AI	March 1			83.3		84.7	84.7		84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.
	00000		1200	83.3			84.7	84.7				84.7	84.7			84.
904 AI	Will Park	2	3.07	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
1000	CONTRACT OF	2.	903 MIL	84.7		86.0	86.0	86.0		86.0	86.0	86.0	86.0	86.0		86.0
> 3000	200	3	1886	87.3	88.7	88.7		88.7	88.7	88.7	68.7	88.7	88.7	88.7	88.7	88.
≥ 2500	110000			87.3	88.7		88.7	88.7	88.7	88.7	88.7	88.7	88.7		88.7	88.7
Distall.	2000 per		100	90.0		91.3		91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.
V 1800	1000	89.3		91.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.
	2027		16222	93.3		94.7	94.7	94.7	7.46	94.7	94.7	7.16	94.7	94.7	94.7	94.
N 1200				95.3	96.7	7.96		96.7	96.7	7.96	96.7	96.7	96.7	96.7	96.7	96
000 A1	\$5574		2320	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.
8 41				7.96	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.
	2007	0.15	150	97.3	98.7	•	98.7			98.7		98.7	98.7	98.7	98.7	98.
N 78	1	:		97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	96
99 1	100	94.0	313	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.
95 Al		94.0		97.3	8.66	99.3	8.66	99.3	8. 66	•		100.0	100.0		-	100.0
		94.0	285	97.3	99.3	99.3	99.3	99.3	99.3	100.0	0	100.0	100.0	100.0	100.0	100.0
8	56.7			97.3	99.3	66.3	8.66	99.3	E-66	100.0	0	100.0	100.0	10000	-	100.0
	200			97.3	99.3	_	99.3	99.3	-	100.0	100.0	Ö	100.0	-	100.0	100.0
8	-	94.0		97.3	99.3		66.3	8.66	80°3	100.0	0	100.0	100.0		-	100.0
	100		223	97.3	89.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	10000	100.

5703 CEILING VERSUS VISIBILITY JAN 68

PERCENTAGE FREQUENCY OF OCCURRENCE	(FROM HOURLY OBSERVATIONS)

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	2	o Al	NO Al	AI	M AI	≥ 2%	1 2	¥ 7	¥1 ¥	Ä	% Al	* 11	N %	2 5/16	× AI	0 1
NO CEILING	48.0	.00	68.0	69.3	69.3	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
IA 20000		. 99	4	72.7	72.7	72.7	4	73.3		3	73.	7		73.	73.	73.3
N 18000	48.7	68.	71.3	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
		68.	71.3	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
		70.	73.3	74.7	74.7	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
¥ 12000		71.	74.0	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
100		73.	75.3	76.7	76.7	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
0006		72.	75.3	76.7	76.7	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
		74.	77.3	78.7	78.7	78.7	70.3	79.3	79.3	79.3	79.3	79.3	79.3	19.3	79.3	79.3
141	53.3	75.3	78.0	79.3	79.3	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	B 000000		78.0	79.3	79.3	79.3	80.0	80.0		•	8	80.0		•	8	80.0
2000	54.7	11.	80.0	82.0	82.0		82.7	82.7	82.7	82.7		82.7	82.7	82.7	82.7	
	56.0		81.3	83.3		83.3		84.0		F-(4)(14)	00	84.0	84.0	84.0		84.0
000		79.	82.0	84.0	84.0		84.7	84.7	84.7	;	80	84.7	84.7	84.7	84.7	84.7
	56.7		83.3	85.3	85.3			86.0		86.0	8	86.0		9	8	
3000		80.	83.3	65.3	85.3	85.3	86.0	86.0	86.0	. 9	•	86.0			•	86.0
Desco.		82.	84.7	86.7	86.7			87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
Y 2000		84.7	87.3	89.3	89.3	69.3	90.0	90.0		•	•	90.0			5	90.0
73.40		85.	88.0	90.0	6	0	40.4	90.7	90.7	90.7	0	106	90.7	0		90.1
> 1500		87.	90.0	92.7	93.3	93.3	94.0	94.0		94.0	0	94.0	94.0	•	0	94.
			92.7	96.0	0		97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
0001 1		89.	92.7		96.7	1 96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.
			92.7	96.0	6	1 96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.
008 Al	60.7	89.3	92.7	96.0	0	1 96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.
	60.7		92.7	96.0	6	7.96 7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.
009	60.7	90.	93.3	96.7	97.3	97.3	98.7	98.7	98.7	98.7	98.	98.7	98.7	98.7	1 98.7	98.
	60.7	90.	93.3	96.7	97.3	97.3	98.7	98.7	98.7	98.7	98.	98.7	98.7	1 98.7	1 98.7	98.
VI 400	60.7	90.	93.3	97.3	98.0	0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.
	60.7	90.	93.3	97.3	98.0	98.	€.66	99.3	99.3	66.3	99.3		99.3	66°	1 99.3	99.
× 200	60.7	90.	93.3	97.3	98.0	98.	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0
N 100	60.7	90.0	63.3	97.3	98.0	98.0	100.0	100.0	100.0	100.0	-	-	1001	1000.0	1000.0	100.0
0 <1	60.7	90.	93.3	97.	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1000.0	100.0

TOTAL NUMBER OF OBSERVATIONS

0 60

NAVWEASERVCOM

0 0

CEILING VERSUS VISIBILITY

1234 - 18766

5703 CEILING VERSUS VISIBILITY JAN 68

=

I	STATION IN	4		1	-	1		YEARS	9			1	ACCION	>.
		PERCENTAGE (FROM)	ENTAGE (FROM	E FREQUE HOURLY			CCU	OF OCCURRENCE ERVATIONS)					HOURS	
		areal i			VISI	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
	\$ 2	7 1	e Al	Y 2%	7 7	¥1 Y	×1 ×	- AI	N N	*	× AI	≥ 5/16	N N	AI
01	58.3	4.10	63.6	0.40	54.5	64.9	64.7	64.1	64.7	64.7	64.7	64.8	8.49	3
	62.9	66.3	48.5		100		200	000	100	69.7	69.7	69.8	40.69	23
F	63.0	4.9	66.7	69.1	69.6	69.7	69.8	69.6	69.8	69.8	69.8	69.6	69.9	70
	64.3	67.8	70.2	70.6	71.1	71.2	71.3	71.3	71.3	71.3	71,3	71.4	71.4	71
9	65.9	69.7	72.0	72.4	72.9	73.0	73.2	73.2	73.2	73.2	73.2	73.3	73.3	2
	01.0		13.7	14.1	24.0	-	74.0	74.0	74.0		14.0	74.9	-	2:
	2009		75.7	74.1	7.	1	74.0	71.0	77.0	76.0	10.4	77.0	77.5	
35	69	73.6	76.2	76.6	70.7	7.2	1	1	77.	1	17	17	1	1
-	70.3	74.3		77.3	77.8	77.9	78.1	78.1	78.1	78.1	78.1	78.2	78.2	18
	71.3	75.3	78.0	78.5	79.1	79.2	79.3	79.3	79.3	79.3	79.3	79.4	79.4	13
7	72.1	76.1	78.8	79.3	79.8	19.0	80.1	80.1	80.1	80.1	80.1	80.2	80.2	8
7	72.9	76.6	79.3	19.8	80.3	80.4	90.0	80.6	80.6	9000	80.6	80.7	80.7	80
	73.5	17.6	80.3	80.0	81.4	81.5	61.7	81.7	81.7	61.7	81.7	81.8	81.8	81
-	75.6	79.7	82.4	82.9		83.6	83.8	83.8	63.6	83.6	83.8	93.8		83
0	77.2	41.4	84.2	-	800	00.00	000	50	83,0	85.9	82.0	85.6	85.6	82
7	80.0	86.3	87.		87.0			89.6	-	0 4	88	88.1	88	8
4	61.3	86.2	89.3	0	90.0	800	91.0	91.0	91.0	91.0	91	91.1	91.1	3
6.	83.3	88.5		*				93.5			93.5	93.6	93.6	66
7	84.2	89.3		3.3		94.3	94.4	94.4	94.4	94.4	94.4	94.5	94.5	16
7.	84.6	89.8	93.1	93.9		94.9	95.1	95.1	95.1	95.1	95.1	95.2	95.2	93
~	3	1.06			•		95.4	95.4	95.4		95.4	95.5		95
	85.1	90.3	93.7	94.0		95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	93
-	85.4	90.0	96.2	7	96.1	96.3	100	96.4	4.96		9006	96.9		96
	85.8	90.7	6.46		96.3	90.0	96.0	6.96	97.0	97.0	97.0	97.1	97.1	2
-	85.7	91.2	95.0	0	97.3	97.6	97.8	98.2	98.3	98.3	98.4	98.5		96
	85.7	91.2	95.2	96.2	97.5	97.8	98.1	98.8	98.0	98.9	99.0	99.1	99.1	60
9	85.7	91.2	95.3	96.3	97.7	98.0	8 · 3	98.9	1.66	1066	99.2	99.3	99.3	66
	85.7	91.2	95.3	96.3	97.7	90.0	98.3	98.9	1.66	7.66	99.2	99.3	66	6
5	65.7	91.2	95.3	96.3	97.7	8	98.3	98.9	1.66	1.66	89.3	89.3	99.3	00

NAVWEASERVCOM

TOTAL NUMBER OF OBSERVATIONS

4500

3200

2000

1800

1200

88

58 88

300

NO CEILING

CEILING (FEET) 18000 1 16000

V 1 400

VIVI 280

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

0

5703

0 79.4 ≥ 5/16 88.4 2 A Al Al VISIBILITY (STATUTE MILES) 7 Al Al AI Al 4 2 NO CEILING > 20000 VI VI 0003 0003 1800 80 98 98 98 4500 4000 2000 1200 88 88 88 (FEET) 2000 9000 3000 88 ALAI ALAI

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

155

0

NAVWEASERVCOM

0

MIM

MIM

ALAI

A! AI

ALAI

0

AI AI

0 Al

2.7 80.7 8.9 83.9 7.1 87.1 8.9 8.9 9.9 1.0 87.1

00	Bi 4	70
-	95	80
00	00	00
20	W 4	33

CEILING VERSUS VISIBILITY

(FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF OCCURRENCE

ALAMEDAS CALIFORNIA

NO CEILING

Y 14000

VIVI 7000

0

0

(FEET)

	Al	37	9	9	9	00	63	65	65	65	99	67	68	69	69	70	72	10	78	78	80	81	83	83	83	87	89	16	6	95	97	97	07
	≥ 5/16										1			1.69												87.1						97.4	07.
	22	57.4	. •					65.2		65.8	66.5			69.7															3.	5	1.	4.76	4 76
	*							65.2						69.7																	97.4		
	* AI													69.7																		97.4	07.4
(5)	71		4		d			65.2			66.5				9.	0	2	76.8	8	8	0	-	3.		3.	7.		:	93.6	3.	96.1	96.1	
VISIBILITY (STATUTE MILES)	¥1 Y	57.4	3	0	3									69.0																			
BILITY (ST.	YI 71	\$7.4	d	60.7	60.7	0	63.9	65.2	3		65.8			0.69																			
VISI	7	56.8	0			0		64.5		5	5.			4.89																			21
	Y 2%	56.1		59.4										67.7																	87.7	87.7	87.7
	e Al	54.8		58.1	58.1	58.1	61.3	62.6		63.2				66.5														;	85.2		85.2		88.2
	4		•			52.9		56.8				58.1	6	60.7	6	-			6		-		-									77.4	77.4
	8 41							46.5						50.3	•			7.	8.		-	-	2.			5	3	:		66.5	3		
	9							43.9						47.7	62				5.	•	8		6			60.7	0			61.3	61.3		6.1.4
	2	18.7	1	21.9	21.9	21.9	23.2	24.5	24.5	24.5	24.5	25.2	25.8	27.1	1	-		30.3			-	-		-		31.6	1	:		:	31.6	31.6	31. E

17 IV

1500

1200

88

88

88

3000

4500

200

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

80

-

5703

HOURS (LS.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	ı	
	1	
	۱	
	,	
	1	
	ł	
	,	
	۱	
	,	
	۱	
	1	
	,	
	1	
•	1	
	1	
	1	
	1	
	1	
200	1	
	ı	
	1	
	1	
4	ı	
	1	
•	,	
	1	
	н	
4		
-		
•		
•	ı	
	J	
	l	
,	l	
	۱	
)	۱	
	١	
	١	
3		
20 11		
20		
20 140		
Our I		
ONE! OF		
John Co		
CONF. CO		
OOUT OO		
O I I I		
TOOME OF		
HOOME! OF		
TOOK TOOK		
THOOM I		
THOOME OF		
THE COURT OF		
an Hoomer on		
AM HOOREI OF		
OW HOOME! OF		
OM HOOME! OF		
COM HOOKEL COCK LANDING		
NOW HOOME! OF		
NOW HOOKEL OF		
MOM HOOME OF		
(I WOW HOOKE OF		
(I WOW HOOME)		
(I WOW HOOME) OF		
(I WOW HOOME)		
(I WOW HOOME)		
(I WOW HOOME)		
Communication of		
(I WOW HOOME)		
Communication of		
(I WOW HOOME)		
(I WOW HOOKE)		
Cham mont		
(I WOW HOOKE)		
Chamming and		
Communication of the communica		
CHOWN HOOKE		
Communication of the communica		
O LINOUL HOULE		
(I WOW HOOKE)		
(I WOW HOOKE)		
Cham Hooms		
(I WOW HOOKE)		
Charle Month		
(I WOW I HOOME)		
oo Hagur Houri		
de l'accomption l'accomption de l'accomption d		
(mon noon)		
O ITWOWN HOOME		

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES						
(FEET)	5 1	4 Al	S AI	VI	E 41	2 2%	2 2	×1 ×	71 7	-	× Al	*	Z AI	≥ 5/16	VI VI	AI
		32.				-	3		54.8	56.1	56.1	56.1	56.1	56.1	56.1	56.
≥ 20000	w	33.	36.1		49.7		3	56.8	56.8	58.1	58.1	58.1	58.1			58.
≥ 18000		33.	36.1	45.2	49.7		56.8		56.8	58.1		58.1	58.1	58.1	58.1	58.
		33.			49.7	2.	9		9	58.1			58.1	5	•	58.
		35.	38.1			4	*			•	60.	0.09	60.0	.09	0	
× 12000		38.	41.3		54.8				63.2		. 49		64.5	64.		64.
		39.	41.			0	-			5.	.59	65.8	65.8	0	5	•
000 AI		39.	41.		56.1			+			65.		65.8	65.	3	9
		40.	4		58.1	:				8.	68.	8	68.4	68.	8	
700			43.								69			69.		0
	1000	42.	45.				:	6	6		70.	0	0	70.	0	
9000	3.10	42.	4					6	69.0	•	70.		0	70.		70.
1		46	47.		61.9	3	6	-		2	72.		2.	72.	2.	
141		**	4				6	-			72.		2	72.	2	-
		*	47.1		:	S.	6	-		2.	72.	2		72.	2.	
3000		45.	4					-			72.	2	2	72.	2	-
		47.	50.	0.09	65.2	0.69	2	74.2	74.2	75.5	1	75.5		75.5	75.5	75.
1 2000		49.	51.6			0		5		.9	76.	;	;	76.		-
		49.	51.			0		3		.0	76.	.0	. 9	-	;	-
1500		51.	53.		68.4			1.			78.	8		~		-
		51.	54.		6		.9			6	.64	6	79.	79.	.6	-
VI 000		51.	54.	•	0					0	80.		80.	80.	•	8
		51.	2		71.6		.6	80.7			*18	81.9	81.9	0	-	81.
88 AI		51.	55.		2	.0	ò	1:	-	2	82.	2.	82.	82.	2	•
		52.	56.		3.		•				85.	3.	85.2	3.	3	0
8		53.	57.4		;	0			1		88.		8.	88.		
		53.	57.			-	•			0	.06	.0	0	90.	0	0
84 1		53.	57.4	71.0			•			ò	90.	0	0	90.	0	Dy
> 300	27.7	53.6	1.86	71.6	78.7	82.6	87.7	6.06	90.3	6.26	6.26	92.9	65.6	92.	92.9	0
> 200		53.	*	71.6			-	0		2.	93.			0	3	0
W 100		53.	58.1	71.6	78.7	82.6	87.7	90.3	90.3	2	93.	93.6	93.6	0	*	96
٨١		53.	*	71.6	78.7	2	87.7			2	93.	93.6	93.6	93.6		10

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

0

•

NAVWEASERVCOM

0

0

0

0

0

ALAMEDA, CALTERNIA

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE
AGE FREQUENCY

CEILING VERSUS VISIBILITY

CHING							VISI	BILITY (SI	VISIBILITY (STATUTE MILES)	ES)						
	2	9 11	8	1	N AI	≥ 2½	2 1	۲۱ ۲۲	×1 ×1	Ā	% AI	*	% Al	≥ 5/16	AI N	O AI
MD CEILING	- 3	25.2				2			45		1.	47.1	7.	1	48.	48.
30000		29.0		36.8			8. 1	52.9	52	1	5	55.5		-0	56.	56.1
	3	29.7	380	37.4		8			53.	3.		56.1			57.	57.
2 16000		29.7	100	37.4					53.	3	0	56.1		0	57.	57.
≥ 14000	4. 15	31.6		40.0		:			56.			58.7		0	9	60.0
12000		32.3							56.	8	6	59.4		0	900	60.
N 10000		36.1			2.			-	61.	-	3	64.5		10	65.	65.6
9000	0.5	36.1	200		2.	9		-	61.	-		64.5		-	65.	65.
9008		37.4		45.8	53.6	58.1		63.2	63.	65.2	65.8	65.8		66.5	67.	67.
101		38.7	.00		3	6		- 3	64.	•	2	67.1		-	68.	68.
0009 AI		39.4			3	0			65.	-	-	67.7		00	69	69
		41.3				-			67.	6	6	69.7		0	71.	71.6
> 4500		42.6				=		-	68.	ò	-	71.0		-	72.	72.3
		42.6				6			68.	a	1	71.0		-	72.	72.
		42.6				-			69	:	:	71.6		N	72.	72.5
3000	5 4	43.2	9		1	3		1	71.		;	74.2		3	75.	75.
≥ 2500		43.9			-	.0			72.	;	+	74.8		-	16.	76.
		44.5				1		-	72.	4	3	75.5		9	76.	76.4
2 1800		45.2						7 325	74.	•		76.8		-	78.	78.
		47.1				1		-	77.	6	0	80.0		0	81.	-
1200		49.7				-		-	80.	-	2	82.6		3	83.	83.
	2	50.3			6				80.	2		83.2		1	84.	84.
006 4		50.3				*		-	81.		84.5	84.5		-	85.	85.6
		50.3				3		0	81.		3	85.2		-	86.	
92 4		51.0				;			83.		-	87.1		-	88.	88.
		51.0	-		0			20.00	84.	-	1	87.7		8	89.	89.
98 4		51.0			0	;		-	85.	-	89.0	89.0		0	00	90
		51.0			-			100	87.	å	2	92.3		-	94.	94.
300	25.8	51.0	56.8	61.3	71.0	76.1	84.5	87.7	87.7	90.3	92.3	92.3	94.2	94.2	94.8	94.
		51.0		4	-			0	87.	a	2	92.9		-	96.	
8		51.0	56.8	61.3	:	76.1	84.5	87.7	-	90.3	92.9	92.9		-	97.	99.
		51.0	56.8		1		•	87.7	200	4	92.9	92.9		5	97.	1001

PERCENTAGE FREQUENCY OF OCCURRENCE

0

0

....

5703

CEILING VERSUS VISIBILITY

0 Al AI 80.7 Al % AI 83.2 83.9 ٨١ VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) 75.9 80.0 7 7 80.0 AI 1 2% 24.5 40.0 46.5 54.2 6 24.5 40.0 46.5 54.2 6 25.2 41.3 47.7 59.2 6 26.5 43.2 50.3 58.1 6 27.7 47.1 54.2 62.6 7 27.7 48.4 55.9 63.9 7 27.7 48.7 57.8 65.6 7 27.7 48.7 57.8 65.8 7 27.7 48.7 57.8 65.8 7 27.7 48.7 57.8 65.8 7 27.7 48.7 57.8 65.8 7 27.7 48.7 57.8 65.8 7 27.7 48.7 57.8 65.8 7 27.7 48.7 57.8 65.8 7 VI 4 N A 2 NO CEILING × 20000 VI VI 00081 VI 00081 Y 1400 4500 3500 9000 986 9000 2500 1500 120 88 88 88 88 80 ALAI AIAI AIAI ALAI ALAI MIM AIAI

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

0

0

0

0

0

HOURS LES T.

CEILING VERSUS VISIBILITY

ALAMEDA, CALTEDRNIA

0

0

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEITING							VISI	VISIBILITY (STA	(STATUTE MILES)	(S)						
(FEET)	21	9 Al	2 41	4 4	E AI	2 2%	N N	VI %	¥1 Y	-	% Al	*	Z Al	> 5/16	N ×	٨١
NO CEILING	24.5	44.5	51.6	55.5	58.7	61.9		63.2	63.2	63.2	63.9	63.9	63.9	63.6	63.9	63.
	1		3			4	1		44		0000	25		3		200
18000		45.8	5:	39.4		:	-		-		04.0	6	•			
	3	45.8	2.			3	7		-		69.0	69		6	-	69.
	3	47.1	-	61.3			6		-	ò	71.0	=		:		71.
× 12000		47.7	;						100	2.	73.6	73.		-	-	73.
100		17.7	3			-	73.		100		75.5	75.		-		75.
0006 1	26.5	1.8.	.9	63.9			74.		2 1 1/2		76.8	76.		-		76.
10.53		1.6.7		3		3	77.				79.4	79.				20.
7000		49.7	-	-		4	77.				79.4	79.		100	79.4	79.
		49.7	2			:	17		_		79.4	79.		CHARLE		79.
2000		50.3				5	78.		77.5		80.0	80.	100	200		80.
E/E		52.3	0	12.000			80.			1	81.9	81.			81.9	81.
14	27.7	54.2		01 Lay		6	82.		S. 107.0		84.5	84.				84.
615	27.7	54.8	2.			0	83.		100		85.2	85.				85.
3000	27.7			10 m			85.	12		7	87.7	87.		200		87.
17.	:	56				83.9	86	87.1	87.1	87.7	88.4	88.		88.4	88.4	88.
7 2000	27.7		3	Section 1		3	88.			6	90.3	90.		-		.06
≥ 1800	27.7	58.1	5.			3	88.				€.06	90			90.3	6
		58.				1	89.			-	91.6	91.			-	910
2 1200	27.7		-	200		7	91.		-	:	92.9	92.				92.
× 1000		59.4	7.	1000		8.	92.		100	:	94.8	94.				94.
08 4		60.	67.	333			92.			;	95.5	95.				95.
	8	60.		100		6	92.			3	95.5	95.			-	95.
W 70		60	•			6	92.			;	95.5	95.			95.5	95.
09 ×		60.	9	100		6	92.	4	-	3	95.5	95.			95.5	95.
2 500		9	9			0	94.				97.4	97.			97.4	97.
× 400		60.	.0	200	86.5	-	95.				98.7	98		-	98.7	98.
300	27.7					-	95.				4.66	6			4.66	6
200		60.	0		9	1	98.			200	4.66			1066	4.66	66
9 8	27.7	60.7	4.89	80.0	86.5	-	93.	96.1	96.1	98.7	4.66	4.66	4.66	4.66	4.66	66
	27.7	50.7	68.4		9	4	98.	3	96.1	-	99.4	99.4	99.4	99.4	99.4	9

TOTAL NUMBER OF OBSERVATIONS

0

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (CS.T.)

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MILE	ES)						
(FEET)	N 10	9 11	82	AI	N Al	> 2%	12	71 %	¥1 ×1	ŽI.	% Al	*	N %	≥ 5/16	% AI	N .
NO CEILING	20			65.2	65.8	1.10	67.7	7.79	7.1.2	7.70	7.79	67.7				
18000	32.9	6:50	65.8			27.	71.6	2.0	17.0	71.6		71.6	71.6	71.6	25	=
	33						-		3		10		-	3	73.	
× 12000	34.8				72.9	74.2					:		3	*	74.	
V 10000		65.2			73.6	•					•			;	5:	
23/2017	3	3.	3	:	3		9			•	3	•	0		9	
VIVI 7800 7800	96.0	27:1	20	74.8	70.7	12.0	78.7	78.7	78.7	78.7			78.7	78	78.7	
				:		-	*		8	8					78.	12
> 2000	100	68.4	6		77.4		•			0	0		0	80.	8	
> 4500	38.7	0.69			78.1		•				ė.			80.	8:	
			6 0			å.	4.		-	4.	4.		•	0 4	9	
3 28	100	72.3	0 00		83.2	200	9 00		2 .	: 5	2		85.8	00	85.	
1	:	74.2	0	:	3.	1:				8				88.	88.	
> 2000	41.9	75.5			7.	6	à		0	0	0		0	90.	90.	511
081 7		MESSET!	-		-	6	ò		0	ò	ė.		0	90	000	
	41.9	76.8	m 4	87.7	89.0	0	91.6	•	-	4.	4.	-		. 6	-	
8 <u>8</u>	6.19				::		9 %							93	93	
	:	78.	0	-	2	;	3		3	3	3			95.	95.	
88 AI	-	100	-	2	*	5								96.	96	1
78		78.	87.1	i			•				÷			96	3	
	41.9	78.	87.1	2		3	.0			•			0	96.	96	
8 41		78.	87.1	ż	;		96.8	97.4	97.4	:	97.4			97.		97.
		78.	88.4		•	. 9	98.1	98.7				•	8	98.		98.
88	41.9	125	4.00				98.1	98.7	98.7				•	86		86
	-	18.	4.00		3			100			77.4		900		90	
80	*	-	4.00	9.0		:	1.00	100	- 1	**	100	100	000		00	
	41.09	18.7	000	3.0	-	0	180	100	2008	27.	27.			27.		500

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

.

	2	1.1
HONT	•	HOURST C'S. T

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING VERSUS VISIBILITY

	AI .	90	0.	=	-	2	-	76.	2		1	1		83	85	500		92.		94.		96.	96	97.	6	98	:
	× AI	65.8	69	9	72.	12.	75.	75.	75.	76.	76.	78.				85.2	6		93.	93.	94.	95.		96	97.4		98.1
	≥ 5/16	65.8	69.0	70.3		72.9			•	4						82.2	89.7		93.6			95,		96.	0		98.1
	N N		0.69														89	-	93	93.	94.	•		96.8		98.1	98.1
	* AI	65.8	69.0	70.3					75.5							85.2		92.3				95.5	96.1		97.4	98.1	98.1
	% Al	65.8	0.69	10		72.9										•		92.3				3	;	•	1.	97.4	97.4
ES)	Ā	65.8		70.9		72.9		- 3				8	d	3	2.			92.3		3		3:		.9	97.4	97.4	97.4
ATUTE MILI	¥1 VI	65.2		69.7	71.6		74.8							81.9		24.00	6										96.8
VISIBILITY (STATUTE MILES)	¥1 ¥1	65.2	9.			72.3		74.8	74.8		76.1	78.1	200	1		04.0		91.6	2				95.5				96.8
VIS	N N	65.2	4.89			72.3	74.8	4	:			. 8	6	81.9		24.		91.6	6.26	2			:		96.1		1.96
	2 2%	63.9	67.1			27.0	72.9				• •				2.	200	:		•	-	•	2		2		3	93.6
	N AI	62.6	65.8		6	69.7	71.0		•						•	81.9	3	87.7		6		a	:	1	91.6	-	91.6
	4	61.3		65.2		67.7	69.7	69.7	69.7	69.7	100	72.3	100	(Project	PANE B	78.7		85.2	-		3	87.7	88.4	88.4	88.4	88.4	4.88
	S AI	55.5		59.4	6	61.3	-	63.2	63.2	63.2	63.9	CONTRACTOR OF		69.7	-	71.0	73.6	75.5	76.1	76.1	77.4	77.4	78.1	78.1	78.1	78.1	78.1
	٥ ٨١	49.7	52.3	53.6		55.5	57.6	\$7.4	57.4	27.65	58.1	0000		63.9	65.8	100	67.7	68.4	4.89	68.4	69.7	69.7	70.3	70.3	70.3	70.3	70.3
	5 41		32.3		34.8		36.1	36.1	36.1		36.1	37.4	37.4	39.4		30.4		40.0	40.0	40.0	40.0	40.0	*0.0	40.0	40.0		40.0
CEILING	(FEET)	NO CEILING	00091		12000	0000		V 7000	999		8	3500		2500		1500		1000	006		200		98 1		38		89
		§ ^'	^'^	<u>'</u>	٨١	AI A	1	^'	ALA	<u>"</u> _^	IAI	AI	^'	All	"	۸۱۸۱	1	1 11	Al	^'	٨١	^'	^'	^'	٨١	^'	^'

TOTAL NUMBER OF OBSERVATIONS

CALIFORNIA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CERTING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MILE	(S)						
(1667)	2	* AI	\$ AI	AI AI	e VI	2 2 1/2	12	V 1 %	71 71	-	% AI	*	N %	≥ 5/16	N N	AI .
NO CEILING		39.5	1:	0	1000	:				6	59.	59.8	59.8	59.	59.9	9
N 20000	24.2	41.7			10.32	3		1	-	3	63.	63.	63.	63.		
≥ 18000			:		V. Co			-			64.	. 49	04.	64.		. 40
N 16000	24.4	42.0				:	NEED	-		3.	64.	64.	64.	64.		. 40
Trans.					570,00	:			;	:	65.	69.	65.	65.	•	65.
≥ 12000	26.1	*	:	180	1201194	;	77.00		1.	-	68.	68.	68.	68.	_	66.
	100		•		19802	5.	1			.6	69.	69	70.	70.	-	6
906	1		ij.		2000	,	1			d	70.	70.	70.	70.		70.
	27.7	47.7	53.0	60.2	65.2			•		2.	72.	72.	72.	72.		72.
7000			:				177	•	:	2.	72.	72.	73.	73.	-	73.
De la			-		-27	8.		-	2	3.	73.	73.	73.	73.		73.
2000		49.2	:		7000		-		3.	3.	74.	74.	74.	74.		
		50.			1100						75.	75.	75.	75.		73.
0007		51.	3		S. STORY	-			5	. 9	76.	76.	76.	76.		76.
		51.9	-		-	2.			.9	1:	77.	7	77.	7		5
3000		53.				;	-	-	8	. 6	79.	79.	79.	79.		
		54.	:		1000	. 9				0	81.	81.	8:	81.		3:
> 2000		56.			0,500			-	-	2.	82.	82.	82.	82.		82.
		56.	:		100	8.	1	.:		2	83.	83.	83	83.		63
1500		930				.0	-			2	85.	85.	85.	85.		85.
		58.	:			:	-			•	86.	86.	86.	86.		87.
≥ 1000	31.9	E 230	3		-		-	-	1.		88.	88.	88.	88		88
	1.		:			;					89.	89.	89.	89.		83
8	-		3		0.00				8		89.	89.	.68	89.		8
	-	-09	;		197	3.		:	0	-	91.	91.	91.	91.		91:
8		60.	:					-	-	2.	92.	92.	92.	92.		92.
	-	60.				7.			2.	3.	93.	93.	94.	94.		46
100	31.9	9.09	2			-			3		95.	95.	95.	95.		95.
300		.00	67.7	77.7	84.4	87.9	92.3	93.9	93.9	95.5	95.9	95.	96	96.2	96.3	96
> 200	-	.09	67.7	. •	84.4	2	-	3		3	96.	96.	97.	97.		97.
W 100	31.9		67.7	77.7	84.4			:		*	96	96	97.	97		86
o 11		.00	67.7	77.7	84.4		-	3	*	3	96.	96.	97.	97.	•	100

CEILING VERSUS VISIBILITY JAN 68

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)								VISIBILITY (STATUTE MILES)	ATUTE MILE							
	VI 5	o Al	S AI	1	E AI	12%	7	YI %	¥1 ×1	<u></u>	* Al	*	Z Al	≥ 5/16	N %	0 11
NO CEILING	*0.	57.7	59.5	6.09	61.8	62.2	62.5	62.5	62.6	9.29	62.6	62.6	62.6	62.6	62.7	62.7
V 18000		•	1.		8 8 4		3			9	1					7
14000	420	61.0	63.2	17		66.2	9			9.99				66.7	66.4	
> 14000	42.9	62.1	3	65.7	66.7		67.5	67.5	67.6	67.6		07.0	67.7		67.7	67.8
	43.6	63.2	65.3	•	•	68.4	68.8	8.89		66.9		69.0	68.8	•	69.0	69.0
≥ 10000	44.2	64.2	4.00	68.0	69.1	9.69	70.0	70.1	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.3
25-630	44.3		66.6		69.3				70.3	70.4	70.4		10.4		70.5	70.9
≥ 8000		65.5	67.7	4.69	70.5	71.0	71.4	1	71.5		71.5	71.5	71.0	71.6	71.6	1.1
> 7000			68.1	69.8	70.9		71.8	71.9	71.9		72.0	•	72.0	72.0	72.0	72.1
	Section 1		68.8		71.3	71.8	72.2	72.2	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.5
> 5000	0.0070		69.3	71.0	72.2	72.7	73.1	73.1	73.1		73.2	73.2	73.3	73.3	73.3	73.4
110	46.5	68.2			73.3	73.8	74.2	74.3	74.3		74.4	74.4	74.4	•	74.5	74.5
≥ 4000	655m		71.0		3	74.4	74.8		74.9	75.0	75.0	75.0		75.0	75.1	75.1
> 3500			:	73.5	74.7	75.2	75.6	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.9	75.9
7	SECTION AND PERSONS ASSESSMENT	70.8	73.2	100	76.2		77.1		77.2	•	77.3	77.3		77.3	77.4	77.4
≥ 2500			74.5	76.4	77.6	78.1	78.5	78.6	78.6		78.7	78.7	78.7	78.8	78.8	78.9
1370	300		76.7				0			81.1		-	81.1	•	81.1	61.2
> 1800	50.0	74.9	77.5	79.5	80.7	81.2	81.7	81.8	81.8	81.9	81.9	81.9	81.9	81.9	82.0	82.0
	200		80.0	82.1			:		84.6		84.7	;		84.7	84.8	84.0
N 1200		79.8	82.4	94.6	86.0		87.1	87.2	87.2	87.3	87.3	-	-		87.3	87.4
230	200	82.1	84.9	87.2	88.6		89.7			ò	90.0	90.0			90.0	100
8	53.2	89.6	86.5	88.8	90.2		91.4	91.5	91.5	91.6	91.7	91.7	41.0	91.7	91.7	91.8
	20m l	84.6	87.6	89.9	-		92.6	92.7	2	•	:				92.9	93.0
92	53.6	85.9	89.0	41.6	92.9	93.5	94.1	9 W	94.3		4.40	+ . + 0	•	94.5	94.5	94.0
	53.8	87.1	90.4	92.8			95.7	95.9			0.96	96.0	-	96.1	96.1	96.2
88 Al	53.8	88.0	4.16	94.1	95.7	96.3	97.1	97.3	97.3	97.3	97.5	97.5	97.0	97.6	97.6	97.7
	53.4	86.5	92.2	95.0	96.7	97.4	98.2	98.5	98.5		98.8	98.8	-	•	98.9	98.9
8	53.6	100		95.2	96.9	97.6	98.5	9.8	98.8	99.1	99.2	99.2	99.2	99.2	99.3	99.3
	53.8	88.6	92.			97.7	98.5	99.8	98.9	99.2	99.3	99.3	•	99.4	99.4	99.5
8	53.8	86.6	92.3	95.2	97.0	97.7	98.6	98.8	98.9	99.2	66	60.0	4.66	4.66	99.5	4.00
	53.8	88.6	92.3		97.0	97.7	98.6	98.9	98.9	99.2	86.3	666	93.6	99.5	99.5	00.0

TOTAL NUMBER OF OBSERVATIONS

14607

0

0

0

SKY COVER

ALAMEDA. CALIFORNIA

73-77

-11

PERIOD

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1	HOURS				PERCENTAG	E FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	S OF TOTAL	SKY COVER				MEAN	TOTAL
MONIN	(L.S.T.)	•	-	2	6	•	25	•	7	8	6	01	SKY COVER	OBS. O
JAN	18	41.3	1.9	3.9	4.5	3.2	5.5	2.6	3.9	2.6	2.0	28.4	4.3	195
	90	40.0	10.0	4:5	5.2	2.6	2.6	3.2	2.6	1:3	•	35.5	4.6	155
	10	26.5	3.2	7:7	6.9	3.9	3.2	9.	4:5	7.1	5.8	32.9	5.4	155
	10	19:4	4.5	5.2	3.9	4.5	5.2	2.6	9.0	7.1	7.1	31.6	5.9	155
	13	19.4	6.9	4:5	3.2	5.2	5.2	3.2	9.0	11.6	5.8	26.5	5.6	155
	91	21.3	5.8	1:0	5.2	3.2	3.2	3.9	9.4	7.1	6.9	27:1	5.3	155
	9	31.6	9.8	6:5	3.9	6.9	6.9	2.6	4.3	7.1	1:9	23.2	*	155
	22	40.0	1.0	4:5	5.8	2.6	2.6	1.3	7:7	5.8	5.2	22.6	6:3	155
				Marie Control										
		. 1												
101	TOTALS	29.7	3.9	5.7	4:0	0.0	4.2	2.5	6:2	6.2	***	28.5	5.0	1240

0

0

SKY COVER

ALAMEDA, CALTFORNIA 23239 STATION

0

0

.0

0

(3

0.

73-77

PEB HONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	OF TOTAL	SKY COVER				MEAN	TOTAL
MONIN	(L.S.T.)	0	-	2	3	•	5	9	7	8	6	10	SKY COVER	08S.
	10	24.8	20.1	3.5	3.5	5.0	5.7	3.5	5.0	5.7	2.8	38.3	5,8	141
	8	26.1	2.1	6:3	6.4	6.3		3	5.7	4.0	2.8	40.4	5.9	141
	6	16.9	6.3	6.3	9.0	900	2.6	3.5	9:0	4.0	2.0	43.3	4.0	161
	9	16.2	2.1	2.8	4:3	9.0	.,	2.8	5:7	9.2	11:3	41.8	7.0	141
	:	12.1	6.3	6:3	6.5	61.3	3.5	20.1	5.0	9.2	*	*0.	9.9	141
	9	15.6	2,1	3.5	6:3	3.5	30.5	2.8	4:3	15.6	3.5	41:1	6.7	141
	•	19,1	9.0	9.0	5.0		1.6	.,	5.0	17.0	9.0	32.6	0.0	141
	22	27.0	3.5	:	5.7	2.8	*	5.0	5.0	8.5	2.0	32.6	5.3	=
		ı			i.					7.				
5	TOTALS	19.0	3.2	6:3	5.1	6.5	2.8	2.7	5.3	8.6	1.0	38.8	6.2	1128

.

0

0

0

O

0

0

0

SKY COVER

ALAMEDA, CALIFORNIA

73-77

3-77

PER

MA NON

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

7	HOURS				PERCENTAG	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	Y OF TENTH	S OF TOTAL	SKY COVER				MEAN	TOTAL
	(L.S.T.)	0	-	2	е	7	5	۰	7	8	6	01	SKY COVER	OBS.
HAR	10	31.6	1:3	1:9	3.2	4.5	2.6	1.3	6.3	9.0	4.5	33.5	5.5	155
	*	30.3	2.6	3:2	2.6	5.2	149	4.5	3.2	3.9	3.2	39.4	5.5	155
	10	20.6	3.2	3.2	4.5	3.2	1.0	3.9	4:5	7.7	4:5	42.6	6.9	155
	10	20.6	3.2	3.2	3.9	4.5	7.1	4.5	7:1	5.2	9.0	91:0	5.9	159
	13	20.6	3.2	3:0	6.9	3.9	5.6	1.3	6.9	0.0	6.5	32.9	5.9	155
1	16	13.5	7.7	8.8	5.8	5.8	5.6	2.6	7:7	9.0	3.2	32.9	5.9	155
	67	19.4	2.6	7:1	1:1	6.5	8.8	4.5	6:9	6.9	4.5	29.0	5.5	155
	22	32.9	2.6	5.2	5.2	3.9	1:3	4.5	2.6	8.4	4:5	29.0	4.0	155
TOTALS	15	23.7	3.3	4:2	4.9	4.7	4.0	3.4	5.6	7.3	5.0	5.0 33.9	5.7	1240

0

0

0

O3TNIR9

SKY COVER

ALAMEDA, CALTFORNIA

0

0

0

0

0

0

0

0

73-77

PERIOD

APR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS				PERCENTAG	E FREQUENC	Y OF TENTH	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	SKY COVER				MEAN	TOTAL
S.T.)	0	-	2	6	1	5	9	7	∞	6	01	SKY COVER	OBS.
78	46.7	2.0	9:0	3.3	5.3	3.3	1.3	0.9	0.9	5,3	20.7	4.0	150
4	40.0	3.3	1:1	9.0	0.0	200	.,	3.3	3.3	4.7	26.0	4.2	150
*	20.7	0.0	0.4	3.3	0.0	2.7	0.0	3.3	5.3	7.3	27.3	5.0	150
9	36.7	0.0	1.3	3.3	0.4	4:7	1.3	6.7	7.3	8.7	22.0	Ş	150
51	33.3	0.0	7.3	2.7	4.7		0.4	5.3	12.0	3.3	20.0	4:4	150
2	30.7	5:4	7.3	2.0	0	2.7	6.7	24	12.0	7.3	14:0	**	150
9	28.7	7.3	7.3	8.0	5.3	6.7	2.7	6:7	9.0	4:7	16.7	4.2	150
22	0.00	5.3	6.0	0.0	5.3	3.3	4.0	0.0	4.0	2.0	20.0	3.6	150
TOTALS					-3 8 1	2							3

0 2 0

O

SKY COVER JAN 68 5704

SKY COVER

ALAMEDA, CALIFORNIA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUENC	Y OF TENTH	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	SKY COVER				MEAN	TOTAL
MONTH	(LS.T.)	•	-	2	8	4	10	9	7	80	6	01	SKY COVER	OBS.
**	10	8.4.8	3.9	4.5	9.8	3.9	1.9	•	3.2	4.5	5.2	4.12	3.8	154
	å	33.5	1.7	3.9	5.8	3.2	3.2	4.5	1:0	9.0	9.2	25.2	4.5	155
	70	28.6	5.2	5.2	3.2	505	3.9	2.6	5.8	4.6	5.0	26.5	5.1	155
	3	60.6	2.6	6:5	3.2	6.5	8.4	3.2	3.9	4.5	4:5	20.0	4.0	155
	5	49.2	7.7	1.1	6.0	3.2	3.2	109	3.9	11.0	3.2	9.7	3.2	155
	9	40.6	7.7	6:5	6.5	302	6.9	2.6	8.4	5.8	4.5	9:7	3.3	155
	9	36.1	6.5	7.1	7.1	6.5	3.9	1.3	6.5	5.8	7.7	11.6	3.7	155
	77	\$4.5	5.2	5.2	3.2	5.8	3.2	3.2	3.9	4.5	4.5	16.8	3.6	155
10	TOTALS	39.0	5.7	5.5	5.2	;	0.4	2.5	4.7	6.7	4.8	17.6	3.9	1239

0

0 0 0 0

SKY COVER

0

0

0

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUENC	Y OF TENTH	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	SKY COVER				MEAN	TOTAL
MONIH	(L.S.T.)	0	-	2	8	4	2	9	7	∞	خ خ	01	SKY COVER	OBS.
N	10	40.7	1:3	2.0	1:4	4.7	103	4.7	1:3	5.3	5,3	28.7	4.0	150
	*0	31.3	-	5.3	1:4	2.7	2.0	3.3	2.0	4.0	2.0	41.3	5.4	150
	7.0	28.7	2.7	2.0	2.0	3.3	3.3	2.0	4.0	7.3	5,3	39.3	5.8	150
	9	31.3	0.0	2.7	0.0	3.3	4.7	4:0	4:7	6.7	5.3	25.3	4.8	150
	13	46.7	5.3	3.3	4.0	7.3	2.7	2.7	0.9	0.9	4.7	11.3	3.3	150
	97	46.0	8.0	6:7	5.3	4.7	3.3	1.3	5.3	4.0	0.0	9.3	3.0	150
	67	36.7	10.0	5.3	5.3	4.0	4.0	4.7	5.3	6.7	4:7	[3:3	3.7	150
	22	41.3	4.0	0.0	4.0	0.4	3,3	3.3	4:7	5.3	4.0	20.0	3.9	150
5	TOTALS	37.8	4.8	4.2	4.5	4.3	3. [3.3	4.2	5.7	4.7	23.6	4.3	1200

0

0

0

0 .

SKY COVER

ALAMEDAS CALIFORNIA

73-77

GOII

3*

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	OBS.	155	155	155	155	155	155	155	155		0	1
MEAN	SKY COVER	5.2	5.9	4.0	3.9	1.8	1.3	2.1	3.4			
	10	38.1	48.4	52.3	26.5	3.9	1:9	5.2	20.6			
	6	3.9	1.9	1.9	4.5	2.0	1.9	5.5	•			
	8	5.0	6:1	2.0	1.9	3.9	3.9	3.2	5.6			
KY COVER	7	2.6	3.2	1:0	3.2	2.6	1:9	3.9	5.8			
OF TOTAL S	9	4.5	3.2	1.9	1.3	6.1		1.3	5.6			
OF TENTHS	5	1.3		4.5	3.2	2.6	1.3	1.3	3.9			
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	7	3.2	3.2	3.2	3.2	2.6	4:5	3.2	1.3			
PERCENTAGE	3	6:1	3.2	1.3	1:3	5.8	3.9	4.5	3.2			
	2	3.2	2.6	3.9	5.6	5.8	8.8	6:5	4.5			
	-	2.6	1.9	4:5	5.0	5.2	5.8	6.5	3.2			
	0	36.1	30.3	6:12	1.64	63.2	0.69	\$9.4	51.6		1 1	
HOURS	(L.S.T.)	10	8	20	97	13	91	61	22			16
72.70	WOW III	JUL										TOTAIS

SKY COVER

0.0.0.0

0 0 0

ш	
U	
Z	
2	-
3	5
J	ō
X	E
U	4
4	2
0	W
>	BS
2	ō
K	
5	5
O	R
2	ನ
-	Ĭ
W	-
9	3
1	FROM HOURLY OBSERVATIONS
PERCENTAGE FREQUENCY OF OCCURRENCE	F
3	
2	
2	

	HOURS				PERCENTAG	E FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	OF TOTAL	SKY COVER				MEAN	TOTAL
MONIH	(L.S.T.)	0	-	2	8	*	3	•	7	8	6	01	SKY COVER	OBS.
97	10	31.0	3.2	2.6	5.2	3.2	210	103	3.2	2.0	3.2	41:9	5,5	155
	*0	25.8	1.3	2.6	1.0	103	9	1.3	3.2	2.0	3.9	55.5	9:0	155
	10	20.6		1.3	1.3	2.6	•	•	1:0	3.9	7.1	0.09	7.3	155
	9	31.0	2.6	1:0	4.5	2.6	61.9		1:3	9.8	9:0	41.0	5.6	159
	13	16.2	4:3	5.2	4.5	3.2	3.2	3.2	9.8	2.6	3.9	1.0	2.7	185
	*	56.8	6.9	1:7	8.4	3.2	1.3	601	1:0	4.5	3.9	6.9	2.2	189
	10	40.0	5.2	9:7	3.2	600	5.2	3.9	4:3	3.2	5.2	15.5	3.6	188
	2		8.8	7.1	5.2	24.	•	2.4	5.8	3:0	2.6	17.7	***	155
										1				
TOTALS	ALS	9.740	4.1	• . •	• ,		1		•			0	*	

080

0 6

0 0

63

)

D.

6

0 0

23239 ALAMED

0

0

0 0 0

0

HEDA, CALTFORNIA

72-77

PERIOD

1

SEP

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL NO. OF	OBS.	150	150	150	150	150	150	150	150			
MEAN TENTHS OF		5.4	6.9	7.1	5.8	3.1	2:7	3.3	4.2			• . •
	01	36.0	91.3	51.3	41.3	13.3	9:7	12.7	23.3	*		
	٥	1.4	0.4	6.3	9.3	0.0	0.0	0.0	2.7			
	8	7.3	5.3	2.7	4:1	2.7	5.3	0.9	5.3		1	
KY COVER	7	4:3		2:7	2:7	2:7	3:3	1:3	7:3			
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	9	2.0	3.3	4:1		2.0	3.3	0.4	4.7			
OF TENTHS	5		1.3	2.0	4:7	5.3	2.7	3.3	3,3			
FREQUENCY	•	0.4	2.0	3.3	3.3	3.3	5.3	0.0	2.7			7 17
PERCENTAGE		3,3	2:7	4:0	5.3	7.3	6:7	3.3	1.2			
	2	0.0	6:3	2:0	7:3	4:0	2:7	5.3	2:7			
	-	2.0		2.0	4:0	3:3	3.3	•	3.3			1 1
	•	32.0	22.3	16:0	25.3	90:0	54.7	67.3	62.0			
HOURS	(LS.T.)	78	*0	0.7	9	:	91	67	72			STI
HENCH		35										TOTALS

0

0

0

0

0

0

SKY COVER

ALAMEDAS CALIFORNIA

72-57

"

PERIO

100

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	Y OF TENTHS	S OF TOTAL	SKY COVER				MEAN	TOTAL
MONIN	(L.S.T.)	0	-	2	е П	4	3	•	7	8	6	01	SKY COVER	088.
530	8	45.0	3.9	31.2	3.9	1.3	312	2.6	5.2	7.6	3.2	18:1	3.8	155
	8	45.64	3.2	1:0	3.9	3.0	4	5.2	1:0	5.8	4.5	26.5	4.3	155
	6	29.0	3.2	6.9	5:1	6.5	3.9	4.5	3.9	5.2	5.2	5.2 27.7	4.9	155
	9	11.00	2.4	8:0	6.7	3.9	6.9	3.2	3.9	5.2	5.8	20.6	4.4	155
	=	11.1	7.7	5:2	9.8	7.7	5.8	100	6.9	5.2	4.9	11.0	3.4	155
	*	1.7.4	•	4:5	9:0	6.5	5.2	2.6	3.9	6.5	3.9	12:3	3.3	155
	•	49.0	3.2	10.3	3.2	5.2	100	2.6	5.2	3.2	5.6	13.5	3.0	155
	2	51.0	3.2	1:0	69	2.6	3.9	3.9	0.0	3.2	2.0	14:2	3.3	155
					,									
2	TOTALS	64.5	6.1	5.2	5.2	-	3.6	3.3	4.9	5.5	4.0	18.0	3.6	1240

OHO

O.

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NOV 01	IRS				PERCENTAG	E FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	S OF TOTAL	SKY COVER				MEAN	TOTAL
		0	-	2	е П	1	2	•	7	8	6	01	SKY COVER	088.
The second secon	1 82.7	.,	4:7	4:7	T.i.	4.7	4.7		0:0	9.3	4:7	25.3	4:3	150
8		36.0	2.7	8.0	4.7	2.7	9.0	2.0	2.0	6.7	3,3	30.0		150
6		15.3	5:3	6:7	9:3	4.7	2.7	3.3	7.3	9.3	4:1	91.3	9.8	150
9		0.8	7.3	0.0	3.3	4.0	0.9	4.	6:7	11.3	1.0	90:0	5.6	150
2		10:7	8.0	9:3	5.3	207	21.7		4:7	4.7 10.0 10.7 27.3	10.7	27.3	5.5	150
7	92	20.02	5:1	5:3	1.1	5.3	3.3	1.3	0.0	6:7	5,3	31:3	5.5	150
7	9	30.7	5,3	0.9	2.7	6.7	6.4	3.3	3.3	3.3 10.0	3,3 22.0	22.0	4.0	150
2	2.0		Zi.T	6.0	7.3	0.4	3:3	2.7	5.3	5.3	2.0	26.0	**	150
TOTALS	*		5.3	6.5	5.8	:	4.2	1.8	0:	•••	5.1	27.9	5.1	1200

0 0

0

0

0

0

SKY COVER

ALAMEDA, CALIFORNIA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	OF TOTAL	SKY COVER				MEAN	TOTAL
E Z	(LS.T.)	•	-	2		•	10	•	7	8	٥	01	SKY COVER	088.
DEC	18	29.7	4	\$. s	9.6	5.2	3.0	2.6	6:1	7.7	11.3	36.8	5.4	155
	8	28.4	2.6	Siz	5.0	111	216	6.1	4.5	5.8	2.0	33.5	5.2	189
	60	16.1	9.0	6:5	3:0	8.8	6.5	i.s	5.2	3.9	1:9	0.00	5.6	155
	\$	4	7.1	5.2	9.6	997	3.0	3.2	5.2	7.1	4.5	41.3	9.2	159
	3	10:4	8.4	4.5	5.2	9+8	4.5	100	4.5	3.2	1.6	32.9	5.6	155
	4	21.9	7.1	6:9	6.9	515	5.2	3.2	1.3	5.2	6.5	33.5	5.5	155
	9	34.8	3.2	Sie	5.6	6.5	3.2	2.6	3.2	5.2	5.2	26.5	4.5	155
	22	34.2	2.6	9:0	7.1	102	2.6	3.2	7.1	2.0	4.5	25.2	4.5	155
TOTALS	ALS	25.2	5.1	5.0	5.3	9.0	3	2.5	:	5.1	5.4	33.5	5.3	1240

0

SKY COVER

23239 ALAMEDA, CALIFORNIA STATION MANE

PERIOD

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	S OF TOTAL	SKY COVER				MEAN	TOTAL
MONIH	(LS.T.)	•	-	2	8	•	3	•	7	80	6	01	SKY COVER	
JAN	446	7.62	3.9	5:7		0.0	\$1.5	2.5	6.2	6.2		28.5	5.0	1240
FEB		19:0	3.2	6.3	5.1	4.5	2.8	2.7	5.3	9.6	1.1	38.8	6.2	1128
MAR		23.7	3.3	4:2		50.7	9.0	3.4	5.6	7.3	5.0	33.9	5.7	1240
APR		138.1	5.3	5,2	4:4	116	343	313	6.8	7.2	5.4	20.0	4.3	1200
MAY		39.0	5:7	5.5	5.2	*	6:0	2.5	1:4	6.7	4.8	17:6	3.9	1239
NOT		37.8		4:2	6:5	6.4	301	3.3	4:2	5.7	4:7	23.6	4.3	1200
300		14.1	4.0	.;	3.1	30.1	2.3	2.1	3.1	2.8	2.0	24:0	3.6	1240
AUG		36.5	3.6	4:0	4:3	3.0	2.3	1.9	3.5	3.6	4:2	32.3	4.7	1240
369		16.3	3.0	3.3	*:	3.7	2.8	3.1	3.2	4:9	9,3	29.7		1200
100		41.3	1:4	5.2	5.2	47	3.6	3.3	4:0	5.5	4.0	19:0	3.6	1240
NOV		25.6	5.3	6.5	9:6	***	4.2	1.8	4:0	8.0	5.1	27.9	5.1	1200
060		25.2	3.1	5.0	5.5	3.6	11.4	2,5	4:1	5.1	4.5	33.5	5.3	1240
101	TOTALS	33.1	6.3	4.9	4:1	4.3	3.4	2.7	4:5	6.1	4.0	27.4	4:7	14607

Ò

0

0

101 031NIR9

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dev points, and relative humidity. The order and manner of presentation follows:

- Cumulative percentage frequency of occurrence derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
- 1. Daily maximum temperature
- . Daily minimum temperature
- Extreme values derived from daily observations with extreme value given for each year and month of record evallable. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. of daily extreme temperatures are prepared: ö
- a. Extreme maximum temperature b. Extreme minimum temperature
- NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
- Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and The following information is provided: all years combined. 3
- Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb which may require two pages in some cases.
- A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent. NOTE:

- Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares $(\sum X^2)$, sums of values $(\sum X)$, means $(\sum X)$, and standard deviations (σX) . The number of observations used in the computations for each element is also shown.
- dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month. At the lower right of the form are given the mean number of hours of occurrence for six ranges of :
- Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated. NOTE:
- Means and standard deviations These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
- a. Dry-bulb temperature
- c. Dew-point temperature
- Cumulative percentage frequency of occurrence of relative humidity This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary. 6
- Percentage frequency of occurrence of dry-bulb temperature versus wind direction This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree incre-Lus calm). ments and horizontally by eight wind directions 9

DAILY TEMPERATURES

ANNOAL	0.		-	4	2.	-	12.	31		3.	91	7.86	99.8	100.0	65.6
DEC.	0							0	1					99.8	36.6
NON							•				97.2	99.0	100.0		63.4
OCT.				8.	6.7	11.8	25.6	K3 . K	2 2 2	000	100.0				70.9
SEP.	1		4	4.4	10.1	10.7	24.1	100	0.70		2.007				73.9
AUG.		-			2.4		26.1		000	000	100.0	2000			9.17
JUL.		.2	•	-	9	1.2			2000		> > > > > > > > > > > > > > > > > > > >				10.1
JON		4	a.	2 4	6	10.			2 2 2	0 0	0.60	100.0	2		70.8
MAY		1			2.2			29.	47.0	7 60	00.0	100.0	2		67.4
APR.				-			10.7	-	40.7	200	0.00		100.0		1.60
MAR.					-	•				7		1	100.0		0.20
FEB.										6.67		3		100.0	39.4
JAN.								•			88.2	5.00	6.86	100.0	5.66
TEMP (°F)		100		40		4	12	36	24	-	3	200	53	40	MEAN

N

110959

(6)

TEMP

0

5

0 0 0

A

0

A

0

0

9

0

0 0

MEAN S. D.

TOTAL OBS.

DAILY TEMPERATURES

ALAMEDA, CALIFORNIA

0

0

0

0.

0

0

July 100 100 100 100 100 100 100 100 100 10
100.0

0

0 2 0

DAILY AVERAGE/EXTREME TEMPERATURES

23239

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

ALAMEDA, CAL IFORNIA

STATION NAME

STATION

0

0

0

0

1946-1977

YEARS

JANUARY

MONTH

		DATE	1952	1968*	1968	1950	1949	1968*	1968	1971	1949	1949	1949	1949	1949	1949	1950	1977	1947	1947	1967	1949	1962	1962	1949	1949	1949	1949	1949	1957	1950	1975*	1972#	1949
Ь	1E	၁ွ	1.1	2.2	1.1	9.0	9.0-	1.1	-0.6	2.8	1.7	9.0-	-1.1	1.1	9.0-	2.8	1.7	2.8	2.2	2.2	3.3	1.1	1.1	9.0	0.0	0.0	9.0	1.1	1.1	2.2	1.7	3.3	2.2	-1.1
MINIMUM TEMP	EXTREME	₽°	34	36	34	33	31	34	31	37	38	31	30	34	31	37	35	37	36	36	38	34	34	33	32	35	33	34	34	36	100 100	38	36	30
M		o°.	5.8	6.1	8.8	5.4	5.5	5.9	5.9	9.9	4.9	9.9	6.7	6.8	4.9	9.9	9.9	6.9	4.9	6.9	7.4	7.1	1.0	7.2	6.9	6.9	7.1	8.9	6.8	6.9	6.7	1.1	7.0	9.9
	AVERAGE		45.4	42.9	42.5	41.7	41.9	42.6	42.7	43.6	43.5	43.9	1.99	44.2	43.6	8.64	43.8	43.7	43.5	44.4	45.4	46.7	9.44	6.44	44.5	44.5	44.7	64.3	44.2	43.7	0.44	44.7	9.44	43.8
		DATE	1973	1964	1964	1958	1948	1948	1963	1962	1962	1962*	1959	1948	1961	1975	1966	1948	1971#	1958	1976	1976	1976	1968	1974	1948	1948	1946	1971	1976	1962*	1976	1976	1968*
•	E	o°.	16.1	16.7	17.8		17.2	18.3	17.2	20.6	20.6	18.9	17.2	22.2		19.4	20.0	20.0	17.8	20.0	19.4	20.6	18.9	22.2	21.7	19.4	17.8	18.9	17.8	20.0	17.8	21.1	21.7	22.2
MAXIMUM TEMP	EXTREME	L.	19	62	99	99	63	65	63	69	69	99	63	72	99	19	89	89	99	89	4	69	99	72	1,1	67	49	99	49	68	79	70	7.1	72
MA	ш	၁့	12.3	12.2	12.0	12.0	11.9	12.8		12.7	12.3	12.6	12.1	13.0	13.0	13.2	13.1	13.5	13.2	13.2	12.7	13.2	12.9	13.8	14.0	13,0	13.2	13.8	13.5	13.5	12.9	13.7	13.8	12.9
	AVERAGE	9°F	54.2	54.0	53.6	53.6		55.0		84.9	54.1	54.7	53.8	55.4	55.4		55.5				54.9	55.8	55.3	56.9	57.2	55.4	55.7	56.8				56.7	56.9	55.3
		၁့	9.1	9.2	8.9	8.7	8.7	. 9.3	0.6	9.6	9.3	9.6	4.6	6.6	9.7	6.6	9.6	10.0	8.6	10.1	10.1	10.2	10.0	10.5	10.4	10.0	10.1	10.3	10.1	10.0	8.6	10.4	10.4	8.6
MEAN TEMP	AVERAGE	₽,	48.3	48.5	48.0	47.7	47.7	48.8	48.2	49.3	48.8	49.3	0.64	8.6%	49.5	8.69	49.6	50.0	49.6	50.1	50.1	50.3	90.0	90.9	50.8	90.0	50.2		50.2	30.0	49.6	50.7	50.8	9.67
	L	DAY	1	2	3	4	2	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly

*ALSO ON EARLIER YEARS

9

1946-1977

STATION NAME

ALAMEDA, CAL IFORNIA

23239 STATION

0

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

YEARS

MONTH FEBRUARY

	MEAN TEMP	EMP			MAXIMUM TEMP	MP			Σ	MINIMUM TEMP	AP.	
	AVERAGE	GE	AVERAGE	\GE	EXTREME	ME		AVERAGE	Ē	EXTREME	ME	
DAY	H,	o,	H.	ပ္စ	щ°	ပ	DATE	, F	ပိ	₽°	ွ	DATE
1	51.7	10.9	57.7	14.3	73	22.8	1976	45.8		34	1:1	1950
2	51.2	10.7	57.4	14.1	72		1976	6.44	7.2	36	2.2	1949
3	51.3	10.7	37.6	14.2	69	18.3	1967	45.1	7.3	38	3.3	1972#
4	51.9	11.1		14.4	69	20.6	1963	45.8	7.7	38	3.3	1946
2	52.0	11:1		14.2	89	20.0	1961	46.5	8.1	38	3.3	1976
9	52.8	11.6	58.7	14.8	70	21.1	1967	40.0	8.3	36	2.2	1949
7	52.5	11.4		14.7	68	20.0	1963	40.4	0.8	38	3.3	1948
8	52.9	11.6		15.1	73	22.8	1970	46.7	8.2	36	2.2	1949
6	52.7	11.5	58.2	14.6	89	20.0	1953	47.2	8.4	41	2.0	1950*
10	53.4	11.9			99	18.9	1971*	47.7	8.7	42	9.6	1949#
=	53.2	11.8		15.2	67	19.4	1971*	47.0	8.3	37	2.8	1949
12	53.0	11.7		15.1	69	20.6	1953	40.8	8.2	34	1:1	1949
13	52.9	11.6		15.2	10	21.1	1977	40.5	8.1	34	1:1	1949
14	52.9	11.6		15.2	7.4	23.3	1977	40.5	8.1	34	1.1	1949
15	53.7	12.1		15.6	72	22.2	1977	4.74	8.6	41	2.0	1956
16	53.5	11.9		15.3	10	21.1	1977	4.14	9.8	38	3.3	1956
17	53.2	11.8		15.3	72		1977	8.04	8.2	40	+.+	19861
18	52.9	11.6		19.1	7.1	21.7	1977	40.7	8.2	39	3.9	1956
19	53.2	11.8		15.1	16		1964	67.3	6.9	36	3.9	1949
20	54.2	12.3		16,1	72	25.2	1001	4.14	9.8	4.2	9.6	1976*
21	53.8	12.1		15.9	99		1967*	40.0	6.3	42	3.6	1976#
22	93.8	12.1		15.7	70	21.1	1963*	47.3	8.5	04	4.4	1964
23	54.5	12.5		16.4	72	22.2	*6961	6.1.3	8.5	42	9.6	1971#
24	55.0	12.8	62.0	16.7	76	24.4	1954	6.1.0	8.8	04	4.4	1961
25	94.4	12.4		16.2	73	22.8	1968	67.7	8.7	38	3.3	1961
92	53.5	11.9	0.09	15.6	76	24.4	1968	47.1	4.8	37	2.8	1971
72	54.3	12.4	LONG.	10.1	72	22.2	1954	9.10	8.7	36	2.2	1962
82	54.2	12.3	60.3	15.7	10	21.1	1967*	0.80	8.9	00	*.*	1962*
59	53.8	12.1		15.6	7.1	21.7	1968	47.1	8.4	4.2	5.6	1964
30												
31					1 200							
nthiv	53.2	11.8	59.4	15.2	76	24.4	1968*	6.04	8.3	34	1.1	1950*

0

0

*ALSO ON EARLIER YEARS

010

1966 1971*

0

1966

8.6

9.6

69

49.2

30

16.7

1969*

9.4

6.1

5.6 5.0

25.0 28.9

7.0 17.6 4.01

62.9

16.8

12.6 13.0 13.0 13.4 14.0 13.7

14.6

22

23 7

12.8

98

23.9

0

1

ALSO ON EARLIER YEARS

DAILY AVERAGE/EXTREME TEMPERATURES

23239

NAVAL WEATHER SERVICE DETACHMENT

ASHEVILLE, NORTH CAROLINA

0 2

ALAMEDA, CAL IFORNIA

STATION NAME

STATION

1945-1977

YEARS

MONTH

MARCH

AVERAGE

EXTREME MINIMUM TEMP

40.0

1968*

25.0

1994

EXTREME MAXIMUM TEMP

AVERAGE

MEAN TEMP AVERAGE

0

0

8.00

0 4 4

4.4

4.4 6.1 ..

9.0

47.8

25.6

4.0

12.2

16.1

60.9 60.9 60.7

1959 1959 1953 1953

1964

1991 5.0

> 69 30

8.8 8.8

9861

22.2 24.4 25.0

77

15.9

20

15.3

12.2

\$4.0 \$4.5 \$4.2 \$4.2

25

60.6 61.9 62.0 62.7 62.1

12.4

54.3

12.9 13.0

16.4

1981

3.9 6.1

42

8.3 9.0

9.1

1947 1951 1960 1966 1966 1968 1968 1970 1970 1952

24.4 20.6

1585F

25.6 24.4

26.7

190

5.0

1966*

1946

1946

1962*

63.1

18.2

17.3 7.4 16.6 16.6

16.9

(3)

0

12 13 = 15 10 17

0

9

0

0

0

2 19

8

0

0

25

8 27 8 8 30 31

0

0

96.6

0

1

DIRNAVOCEANMET—SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

ALAMEDA, CAL IFORNIA

23239 STATION

0

0

0

0

0

0

0

0

0

8

0

STATION NAME

1945-1977

YEARS

MONTH APRIL

	MEAN TEMP	EMP		dM.	MAXIMUM I EMP	_			2	MINISTRACTION I EIGH		
_	AVERAGE	GE	AVERAGE	GE	EXTREME	ME		AVERAGE	E	EXTREME	JI.	
DAY	.	၁့	.	o°.	.	၁့	DATE	L	၁့	₽°	ွ	DATE
-	85.8	13.2	63.4	17.4	9,6		1959	48.8	9.1	38	3.3	96
2	57.0	13.9	69.0	18.3	80		1961	1.64	6.5	44	6.7	1976*
3	58.2	14.6	9999		98		1961	8.64	6.6	44	6.7	96
•	90.4	14.7	:		18		1960*	50.3		45	7.2	1975*
9	96.9	13.8	-		80		1961	50.3	10.2	63	6.1	1975
9	90.06	13.7	63.5		80	26.7	1962	40.7		63	6.1	1975
1	56.7	13.7	:		79	26.1	1962	49.3	9.6	**	6.7	1971*
8	56.7	13.7	-		76	24.4	1961	49.5	4.4	43	9.1	1971
6	56.2	13.4	63.2	17.3	82	27.8	1968	49.2	9.6	43	6.1	1953
10	57.1	13.9			11		1949	49.2	9.6	24	9.6	1961
=	87.5	14.2	65.7	18.7	83		1958	40.2	9.6	04	4.4	1961
12	56.8	14.0	:		26	33.3	1947	50.7	10.4	**	6.7	1986
13	57.8	14.3	-		86		1947	90.06	10.3	**	6.7	1972
14	\$8.6	14.8	:	19.2	98	30.0	1947	90.0	10.3	94	7.8	1975*
15	58.3	14.6	:		87		1966	50.2	10.1	**	6.7	1975
16	97.2	14.0	-		80		1966	4.64	4.6	42	9.6	1961
11	80.8	13.8		17.9	82		1954	4.64	6.1	63	6.1	1971
18	57.7	16.3		18.6	83		1950	6.64	6.6	41	9.0	1961
19	97.8	14.3	-		83	28.3	1950	50.0	10.0	04	+.+	1961
20	57.1	13.9	64.7	18.2	78	25.6	1958	9.64	8.6	04	4.4	1961
21	\$6.8	13.8	:	18.1	49		1958	1.64	9.5	04	4:4	1971
22	57.3	14.1	-	18.3	98	29.4	1966	49.0	9.0	24	9.6	1961
23	57.7	14.3	69.7		88	31.1	1966	49.8	6.6	44	6.7	1961
24	57.5	14.2	-	18.4	76	24.4	1973+	49.9	6.6	43	6.1	1971
25	57.2	14.0	64.3	17.9	75	23.9	1965+	1.05	10.1	75	6.4	1961
26	87.9	14.4			88		1965	1.06	10.1	43	6.1	1967
27	98.0	14.4	69.8		81		1957	50.2	10.1	44	6.4	1970*
28	57.5	14.2	69.2	10.4	84		1997	6.64	6.6	1+	5.0	1961
29	58.0	14.4		18.8	18	27.2	1949	50.2	10.1	64	6.1	1961
30	58.1	14.5	0.99		82		16	50.5	10.1	44	6.3	1961
31												
Monthly												

0

*ALSO ON EARLIER YEARS

0

5725 DAILY AVERAGE EXTREME TEMP MAR 197

DAILY AVERAGE/EXTREME TEMPERATURES

ASHEVILLE, NORTH CAROLINA

1945-197

STATION NAME

ALAMEDA, CAL I FORNIA

23239 STATION

NAVAL WEATHER SERVICE DETACHMENT

- 1	
- 1	
- 1	"
- 1	EARS
1	4
	d
	ш
-	>
1	
- 1	
- 1	
- 1	
-	
1	
- 1	
-1	
4 1	

1			
Ł			
١.			
1	1	10	
1	FARS	•	
1	~	•	
1	-	:	
ı	a	6	
п	11	ì	
L	-	•	
	>		
ŧ.			
ı			
Ł			
ı			
٠			
ı			
1			
ı			
1			
1			
1			

ARS	
~	
ш	
d	
YE	
>	

YEARS		

S		
~		
Œ		
_		
4		
ш		
>		
_		

S	
v,	
~	
Œ	
-	
4	
ш	
>	

ARS			
ш			
>			

w			
~			
ARS			
-			
Q			
ш			
ш			
>			
_			

U			
D D			
ш			
>			

တ			
Œ			
4			
ш			
>			

RS		
4		
ΥE		
-		

S			
Œ			
4			
ш			
>			

S	
Œ	
-	
4	
ш	
>	
-	

S		
Œ		
4		
ш		
>		

ı		
ı		
ı		
ı		
ı		
ı		
ı	20	
ı	ARS	
۱	4	
ı	ш	
ı	>	
ı		
ı		

ı	S	
ŀ	Œ	
ı	4	
ı	ш	
ı	>	
ŀ		
ı		

S			
Œ			
4			
ш			







MAY

MONT		
Z		
ō		
5		
-		

		DATE	1961	790.
			-2	
	E	၁့	-	7

MINIMUM TEMP

AVERAGE

EXTREME MAXIMUM TEMP

AVERAGE

MEAN TEMP AVERAGE

0

DAY

0

0

0

DATE	1969*	1964	1950	1964*	1964	1964	1968	1968*	1975*	1967	1968*	1967	1968	1968	1964	
ွ	7.2	6.1	7.2	6.7	1.9	9.6	7.8	8.9	6.0	6.3	8.9	7.8	8.3	7.8	7.2	
			-		-	-										I

10011

1947 1953 1953 1959 1959

7.1	6.7	6.1	9.6	7.8	8.9	6.8	6.3
-			~	9			-



0.01

1956+

22.2

19.2 20.1 19.2 17.9

51.7

37.8

19.1 20.02 19.4 19.4 19.3 20.1 20.1 20.7

66.8

15.2

88.00 89.00 89.00 89.00

12 13 14 15

10

0

=

14.9





11.0

51.8

1970

28.3

10.1

19.4

61.0 60.8 99.8

16

17 18

27.2

29.4 25.6

19.6 19.2

67.3 67.6

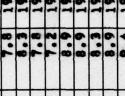
19.9

99.0

19

8

21







11.0



8 0 0 T

1:1































04 4 4

11.3

11.4

1951

20.2 20.1 20.1 20.7 20.7





11.3

1994

27.8

19.6

99.8 99.6 99.9

22

0

23

60.6 61.0

> 27 28 62 30

> > 0

8

25

0

24





















0 0





8.9 9.4

9.11

11.0

100

31 Monthly

0

0





'ALSO ON EARLIER YEARS

0 0 0 0

5725 DAILY AT RAGE/EXTREME TEMP MER 1978

0

0

YEARS
RLIER
V EARL
LSO ON
*AL

0 0 0 0 0 1

|--|

NAVAL WEATHER SERVICE DETACHMENT

(4)

00

ASHEVILLE, NORTH CAROLINA

ALAMEDA, CAL IFORNIA

23239 STATION

0

STATION NAME

1945-1977

YEARS

MONTH

JULY

AVERAGE

EXTREME

AVERAGE

MEAN TEMP AVERAGE

0

DAY

0

0

MAXIMUM TEM

MINIMUM TEMP

EXTREME

1970 1970 1970

[0]

21.3

16.8 16.8

50

1969*

1965

10.0 010010000000

10.0 10.6

1961

33.3

98 86

21.8

71.9

71.3

7.2

63.0 62.1

16.7

0

16.8

35.0

31.7

22.5

72.5

7:5

9 = 12 13 = 15

1961*

25.0 30.0

20.9

1000

1968

596 596 696 696

10.6

30.0

90

71.5

71.7

17.6

63.6

70.8

17.2

1972 1972 1972 1957 1969*

36.1

27.2

0 2 2 2

21.9 22.1 22.2 21.0

1.0

11.9 11.3 71.7

17.5

63.6

9 17

10.00

10.6

13.1

1961 1964 1974 1974

27.8 27.2 28.3

83

21.0

71.3

1.5

22

23

21

5 8

18

77

25

8

8 27 82 30

0

9

82

0

7.4

7.1

69.0 11.2

32.8 28.9 28.3

83

21.7

70.5 70.5

17.2

63.0

22.1

0

1964 1964 1961 1967

1965 1965 1965 1967

1969

13.3

55.9

1963

32.2

21.1 21.6 22.6 22.6 21.8

10.6

0.0 8.9

13.5

8 8

70.0

21.9

11.3

72.7

17.9

101

21.7

ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

ALAMEDA, CAL IFORNIA

23239 STATION

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION NAME

1945-1977

YEARS

AUGUST

MONTH

0		C DATE	•	0.	10.01	**	10.01	1.1 1967	1.1 1970*	1.1 1969*	1.1 1967*	1.1 1973*		10.01	1.1 1967	1.1 1969#	1.1 1966	1.1 1963#	1.7 1965*	1.1 1955*	10.6 1955	10.6 1955	1.1 1970*	10.6 1966	1.1 1966	1.7 1966	1.7 1966	1.1 1955	4.4 1972	1.1 1970*	0.6 1955	1.1 1952	6491
MINIMUM TEMP	EXTREME	ى. د						52 1	52 1	52 1	52 1	52 1			52 1	52 1	52 1	52 1	53	52 1			52 1		52 1	53 1	53 1	52 1	04	52 1	1	52 1	1 69
Σ	щ.	၁့	13.2	13.1	13.1	13.1	13.0	13.4	13.3	13.2	13.2	13.2	12.9	13.2	13.2	13.2	13.3	13.4	13.4	13.3	13.6	13.6	13.4	13.5	13.6	13.6	13.6	13.5	13.4	13.8	13.9	13.7	7.1
	AVERAGE	₽,	55.8	93.6	55.5	55.5	55.4	56.2	56.0	55.8	55.8	55.7	55.2	55.8	55.7	55.7	20.0	56.1	50.1	56.0	56.5	50.5	20.5	56.3	56.5	50.5	50.4	50.3	56.2	56.8	57.1	90.06	7 94
		DATE	1975	1946	1969	1947	1964	1966	1975	1975	1970	1970	1959	1959	1965	1963	1950	1966	1966	1950	1961	19694	1969	1959	1971	1959	1969	1963	1962	1965	1968	19761	6701
AP	ME	o°.	30.0	31.1	27.8	30.6	27.8	28.9	27.2	30.0	32.2	28.9	28.3	31.7	30.6	28.9	31.7	28.9	27.8	28.9	31.1	27.8	29.4	31.7	30.0	28.9	28.9	8	32,2	30.5	38.9	27.8	91.1
MAXIMUM TEMP	EXTREME	L °	86	88	82	87	82	98	81	98	06	84	83	89	87	84	89	40	82	84	88	82	88	89	86	94	84	83	06	87	102	82	88
2		o°.	22.1	21.6	20.9	21.1	21.8	22.6	21.8	22.0	21.8			21.7	21.9	21.6	22,2	22.3	22.1	21.0	22.2	22.4	22.5	22.8	22.7	22.6	22.2	22.1	22.4	22.8	23.3	22,0	23.7
	AVERAGE	.	:						71.2		71.2	70.7	6.89	71.0	71.4		71.9	72.1	71.7	71.2	72.0	72.3			72.9	72.7			72.4	10000		73.1	95.0
9		ွ	17.7	17.3	17.0	17.1	17.4	18.0		17.6	17.5		16.7	17.4	17.6	17.3	17.7	17.8	17.7	17.6	17.9	18.0	18.0	18.2	18.2	18.1	17.9	17.8	17.9	18.3	18.6	18.2	
MEAN TEMP	AVERAGE	.	63.8	63.2	62.6	62.7	63.3	4.49	63.6	63.7	63.5	63.2	62.0	63.4	63.6	63.2	63.9	64.1	63.6	63.6	64.3	4.49	4.40	64.7	64.7	64.6	64.2	64.1	64.3	6.10	65.5	8.49	6 77
		DAY	•	2	3	4	S	9	7	8	6	10	11	12	13	14	15	16	17	18	19	8	21	22	23	24	25	36	27	28	29	30	"

*ALSO ON EARLIER YEARS

0 6 0

0

0

0

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

ALAMEDA, CAL I FORNIA

23239 STATION

O

0

STATION NAME

1945-1977

YEARS

SEPTEMBER MONTH

'ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

3

0

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION NAME ALAMEDASCAL I FORNIA 23230 STATION

0

1945-1977

YEARS

MONTH

OCTOBER

	MEAN LEMP	MP		MA	MAXIMUM TEMP	AP.			M	MINIMON LEMP	MP	
	AVERAGE	SE	AVERAGE	GE	EXTREME	ME		AVERAGE	36	EXTREME	ME	
	.	၁့	٠,	o°.	₽ °	၁့	DATE	9°F	၁့	°F.	၁ွ	DATE
_	9.49	18.1	72.8	22.7	96	32.2	1992	50.3	13.5	84	8.9	1950
	64.1	17.8		22.6	98	30.0	1964	55.7	13.2	90	10.0	1946
	64.2	17.9		22.7	88	31.1	1953	55.4	13.0	25	11.1	1965*
	63.7	17.6	72.3	22.4	88	31.1	1971	55.1	12.8	20	10.0	1949
	0.40	17.8	72.3	22.4	98	30.0	1953	55.7	13.2	25	11.1	1970*
_	0.40	17.8		22.6	87	30.6	1976	55.4	13.0	20	10.0	1949
-	64.1	17.8		22.7	88	31.1	1991	55.5	13.1	20	10.0	1970
	64.5	18.1	72.9	22.7	98	30.0	1958	56.1	13.4	52	1111	1973*
	63.6	17.6	71.4	21.9	89	31.7	1966	55.7	13.2	53	11.7	1973#
-	63.5	17.5	71.3	21.8	85	29.4	1950*	55.7	13.2	69	4.6	1968
-	63.8	17.7	71.5	21.9	87	30.0	1946	56.1	13.4	15	10.6	1970*
	64.7	18.2	73.6	23.1	16	32.8	1971	55.7	13.2	52	11.1	1969#
-	4.49	18.0	73.1	22.8	88	31.1	1959	93.8	13.2	35	11:11	1969*
	63.1	17.3	71.0	21.7	90	32.2	1954	55.2	12.9	20	10.0	1966
g s	65.9	17.2	70.7	21.5	06	32.2	1961	55.2	12.9	64	4.6	1966
	63.6	17.7	72.4	22.4	88	-	1974	55.4	13.0	20	10.0	1970
	63.0	17.2	71.1	21.7	98	30.0	1974+	34.6	12.7	20	10.0	1971#
-	62.1	16.7	69.8	20.8	82	27.8	1966	54.7	12.6	4.3	8.3	1949
	62.3	16.8	70.0	21.1	84	28.9	1961	94.6	12.6	84	8.9	1949
_	62.4	16.9		21.3	85	29.4	1964	54.6	12.6	**	6.7	1949
-	62.5	16.9		21.5	88	29.4	1965*	54.4	12.4	94	7.8	1949
	61.7	16.5	69.1	20.6	85	29.4	1965	54.2	12.3	84	8.9	1966
-	61.5	16.4	68.7	20.4	85		1968*	34.4	12.4	44	8.3	1949
	62.8	17.1		21.6	89	31.7	1965	54.8	12.7	4.3	8.3	1956
	4.19	16.3	6.89	20.5	84	28.9	1966	53.8	12.1	648	8.9	1949
	61.2	16.2		20.3	85	29.4	1968	53.0	12.2	4.0	8.9	1949
-	61.0	16.1	9.89	20.3	11	25.0	1968	53.4	11.9	4.5	8.3	1946
-	80.9	16.0		20.3	44	25.0	1955	53.0	11.7	**	6.7	1946
	61.5	16.4		20.8	82	27.8	1955	53.6	12.0	43	8.3	1971#
	0.10	16.1	66.8	20.4	82	27.8	19694	53.3	11.8	**	6.7	1946
	8.09	16.0	69.2	20.7	06	32.2	1966	95.4	11.3	44	8.3	1986
Monthly	65.9	17.2		21.6	16	32.8	1641	54.8	12.7	**	6.7	*676I

010

*ALSO ON EARLIER YEARS

0

DIRNAVOCEANMET-SMOS

5725 DALLY AVERAGE/EXTREME TEMP MAR 1978 **TEMPERATURES**

DAILY AVERAGE/EXTREME

NAVAL WEATHER SERVICE DETACHMENT

ASHEVILLE, NORTH CAROLINA

00

23239 STATION

0

MEAN TEMP AVERAGE

0

DAY

0

1945-1977

1964 1964 1975 1971 MONTH 1945 1947 1961 NOVEMBER 9000 7.2 5.0 8.9 6.1 EXTREME MINIMUM TEMP 46 99 4 5 5 4 2 2 40 04 5 10.0 11.6 10.0 9.2 11.7 11.6 11.2 11.3 AVERAGE YEARS 555 51.5 51.2 50.9 \$0.0 52.2 52.2 52.4 52.4 52.4 50.8 1961 # 1976 1955 1950 1960 1950 28.3 25.6 23.9 22.2 22.8 23.9 25.6 22.8 21.1 21.7 22.2 EXTREME MAXIMUM TEMP 内とろの内 16.6 19.4 18.1 16.4 16.9 16.6 19.3 19.1 19.1 19.3 16.9 16.7 16.8 16.3 16.4 16.3 16.8 16.6 19.7 18.7 AVERAGE STATION NAME ALAMEDA, CALIFORNIA 61.5 62.1 62.3 65.6 63.6 61.6 61.4

13.6

13.4

55.8 55.8 55.8 55.8

9

11 18

13.4

13.1

55.6

19

8

12.8

55.1

22

23 24 25

21

19.4

2

0,

0

19.0 14.5

99.0

10

0

=

12 5 4 15 ALSO ON EARLIER YEARS

===

9961

5.6 5.0

1952

9.1

8.9

25.0

16.6

61.8

12.6

16.1

2.5

27 28 8 30

60.3

16.3

1952

38

10.2

\$0.4

1950

85

17.4

49.69

13.8

96.9

Monthly

8.9

J

TEMPERATURE	DECEMBER	HLNOW
DAILY AVERAGE/EXTREME TEMPERATURE	1945-1977	YEARS
NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA	ALAMEDA, CAL IFORNIA	STATION NAME
NAVAL WEATH	23239	STATION

O

		DATE	1976	1976*	1965*	1963	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1971	1971	1965	1971	1971	1961	1965	1967*	1948	1948	1962*	1965	1971	1971*	1971	1971	1971*	1972
Ь		ွ	6.1	6.1	3.6	4.4	2.2	3.9	3.3	-1.7	-2.8	-1:1	9.0-	1:1	0.0	0.0	1.1	1.1		2.8	1.7	1.7	1:1	2.8	1.1	0.0	3.9	3.3	2.2	2.2			2.8	-2.8
MINIMUM TEMP	EXTREME	₽°	643	43	42	04	36	36	38	56	2.	30	31	34	32	32	36	34	36	37	36	3	34	37	34	32	36	38	36	36	39	38	37	27
M		٥,	1.6	9.6	8.8	8.8	8.7	8.1	8.1	7.8	1.5	7.6	7.8	7.3	7.2	7.3	7.4	7.1	7.4	7.6	7.5	7.4	7.1	7.3	7.3	7.6	7.6	7.3	7.2	7.2	7.1	6.7	0.9	7.6
	AVERAGE	٠,	48.3	47.5	6.74	47.8	47.7	40.0	40.0	0.04	45.5	45.7	0.04	45.2	45.0	45.1	45.4	44.8	45.4	45.6	45.5	45.3	44.7			45.7	3,000		44.9	March 1997	44.7	1.64	42.8	
		DATE	1959	1969*	1958	1959	1959	1976	1975*	1975	1950	1958	1958	1958	1958	1958	1976#	1969	1958*	1958	1950	1969	1969*	1953	1946	1969*	1961	1967*	1967*	1961	1961	19961	1958	1967
	3	٥.	21.7		2.2	1.1	0.0	4	8.3	-	8.3	0	1.7	2.2	1.7	8.9	~		6	17.8		10			17.8		*	20.0		22.8		17.8		
MAXIMUM TEMP	EXTREME	¥.	1,1	69	72	70	89	67	69	89	69	89	7.1	72	7.1	99	63	10	99	99	99	65	62	99	49	10	67	89	70	73	49	90	69	73
MA	3	٥.	15.4	15.3	15.3		14.6	14.2	14.3	14.2	13.9	13.6	13.9	13.7	12.9	13.1	12.9	3	13.9	13.6	13.2	12.7	12.8	13.3	13.3	13.4	13.3		13.3		13.4	13.1	12.4	13.7
	AVERAGE	¥°	59,8	59.5	39.6	58.5	58.3	57.6	57.8	-	57.0		57.0	56.6	55.3	55.6	55.2	56.1	57.0	56.5	55.8	84.8	55.1	56.0	55.9	56.1	55.9	59.6		56.3	56.1	55.5	54.4	56.6
-		၁့	2.3	11.9	12.1	11.8	11.7	11.2	11.2	11.0	10.7	10.6	10.8	10.5	10.1	10.2	10.2	10.2	10.7	10.6	10.4	10.1	0.0	10.3	10.3	10.5	10.4	10.2	10.3	10.3	10.2	0.0	9.5	10.6
MEAN TEMP	AVERAGE	° 4°	54.1	53.5	53.8	53.2	53.0	52.1	52.2	51.8	51.3	51.1	51.5	90.0	50.1	50.4	50.3	\$0.4	51.2	51.0	50.7	50.1	6.64	50.6	50.5	90.0	80.8	\$0.4	\$0.5	30.6	\$0.4	49.8	48.6	11.1
		DAY	-	2	3	7	9	9	,		6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	36	27	28	23	30	31	Monthly

*ALSO ON EARLIER YEARS

MAXIMUM TEMPERATURE

0

(FROM DAILY OBSERVATIONS)

45-77

ALAMEDA, CALIFORNIA STATION NAME

0

0

0

0

YEARS

WHOLE DEGREES FAHRENHEIT

WEAR YEAR	JAN.	Ę	MAR.	APR.	MAY	JGN.	JUL.	AUG.	SEP.	OCT.	NO.	DEC.	MONTHS
63			14	82	69	-8	82	81	98	28		63	
:	90	3	73	2	90	88	82	88	69	87	68	*0	66
-	09	2	10	92	84	06	08	88	06	98		69	
:	72	2		73	16	86	20	85	68	83	*	62	
6.0	29	19	20	-	68	100	7.8	78	76	83	16	99	100
30	29	5	1	93	91	*8	08	8	16	8	\$6 \$0	99	16
31	63	3	7.8	10	16	83	90	82	26	88	75	40	26
32	10	3	*	81	88	82	83	82	83	90	78	63	06
33	20	**	7.8	73	88	26	*8	8.5	06	88	10	70	36
*	62	2	20	85	82	87	06	82	*	06	7	63	*
35	69	3	-	69	86	06	76	84	16	82	83	63	16
36	62	3	7	11	60	68	75	78	88	16	7.8	68	89
57	63	3	69	78	83	76	90	85	96	73	-	63	76
58	89	3	80	63	87	98	16	*8	91	87	74	72	16
99	69	F	90	18	48	86	99	68	83	200	73	7.1	95
9	69	5	90	81	40	46	83	81	88	88	7.	69	36
10	69	10	74	**	74	100	26	19	.95	06	-	63	100
62	\$	3	20	81	80	06	7	96	84	8	19	65	
69	50	72	10	9	4	76	06	84	26	78	69	29	26
*	*	2	=	*	73	87	68	88	95	98	73	63	95
65	09	2	76	48	78	83	75	87	98	89	73	09	80
:	20	3	98	88	90	96	68	8	26	8	20	*	96
10	99	70	69	09	82	74	63	82	26	68	63	13	
;	72	2	80	82	75	8.5	16	102	24	83	69	9	102
69	09	65	78	7.8	63	08		83	83	87	8	69	87
20	63	2	2	77	**	20	101	06	-92	68	72	99	101
-	*0	69	72	*	13	83	63	86	106	16	14	09	106
72	57	3	82	78	06	88	100	90	85	83	61	19	100
73	19	69	99	1	87	40	16	82	16	80	99	19	46
74	2	3	70	79	68	85	88	82	06	88	70	63	06
MEAN													
S. D.													
100 17404													

0

2

0

0

NAVWEASERVCOM

ALAMEDA, CALIFORNIA

6 29 18 T

0

0

0

C

MAXIMUM TEMPERATURE

EXTREME VALUES

WHOLE DEGREES FANKENHEIT

MONTHS	101		94.3	4.721	11933
DEC.	6.0	8	6499	3.600	1023
NOV.	200	2	14.6	5.002	960
OCT.	200	8	85.2	4.211	1023
SEP.	6 6	8	90.9	4.711	066
AUG.			6.40	4.571	1023
JQ.	0 S		198	6.719	1023
Ž.	101	8	87.7	6.526	066
MAY	100	2	83.3	7.205	1023
APR.	25	e	78.7	6.421	990
MAR.	22	2	9.47	4.921	992
E	35	2	99	3.968	406
JAN.	52	8	64.8	3.002	266
YEAR	75		MEAN	S. D.	TOTAL OBS.

*

0

0

0

0

0

0

MAXIMUM TEMPERATURE FROM DAILY OBSERVATIONS

/BASED ON LESS THAN FULL MONTHS/ 45-77

ALAMEDA, CALIFORNIA STATION NAME

23239 STATION

0

0

0

0

0

0

0

YEARS

ALL	MAX TEMP	X TEMP					10 10 10 10 10 10 10 10 10 10 10 10 10 1				
	N O	MAX								-	
DEC.											
NOV.	69										
OCT.											
SEP.							数数数の				
AUG.											
JUL.											
JUN.							机成者				
MAY											
APR.					(5754 1				
MAR.		306					名 E W				
5											
JAN.											
YEAR	6.1	84							MEAN	S. D.	

(3)

NAVWEASERVCOM

()

MINIMUM TEMPERATURE

ALAMEDA, CALIFORNIA STATION NAME

0

WHOLE DEGREES FAHRENHEIT

AONTH JAN.		3.8	35	9	30	32	38	ż	7	:	38	•	35	3	0,4	36	34.	33	36	•	22	33	38	31	37	04	35	32	04	38	MEAN	
Ę		2	74	2	35	3	38	3	:	4	00	=	38	3	\$	\$	69	:	3	=	42	=	74	•	3	\$	37	33	3	4.9		
MAR.		7			42	42	04	0	33	7	-	39	43	6.9	94	43	:	*	7	04	:	36	:	64	43	+3	37	42	04	**		
APR.	**	45	84	:	9,	45	40	*	43	40	43	:	64	;	30	*	**	*	43	;	43	*	38	:	94	;	04	;	48	4.0		
MAY	64	20	51	43	64	:	20	4.5	*	20	64	20	25	64	84	+1	48	50	**	42	94	;	45	*	4.5	**	94	*	90	49		
Š	90	51	53	34	31	20	6.	20	32	51	6.	52	52	33	52	32	23	90	32	90	64	*	0,	31	20	52	0,0	9	53	1		
JU.	3.4	53	52	*	20	25	20	3.	31	52	25	52	24	54	36	23	34	53	24	51	*	5	2	23	64	20	55	66	21	34		-
AUG.	53	54	34	34	25	34	53	25	25	25	51	23	35	57	35	53	93	23	52	53	52	51	••	:	25	*	55	00	15	34		
SEP.	52	52	53	51	25	20	34	25	54	53	20	33	24	*	53	52	52	93	24	51	52	52	35	53	55	20	34	*	52	54		
	25	:	51	•	*	?	20	21	20	51	20	+1	53	53	53	52	*	53	20	20	51	;	51	\$	52	•	41	\$	25	52		
NO.	43	**		45	84	84	• 3	38	45	24	24	*	43	64	4.3	43	14	43	**	24	**	24	4.4	45	42	•	.,	+1	4.5	40		
DEC.	38	40	040	32	37	43	37	•	74	36	04	30	1,	45	1,	38	39	39	30	38	76	36	35	33	00	45	34	27	**	42		
MONTHS		38			30	35	37	**	38	28	36	38	35	04	04	36	34	33	36	36	**	35	35	76	37	00	46	27	0+	38		

NAVWEASERVCOM







0













ू

0





MINIMUM TENPERATURE FROM DAILY OBSERVATIONS!

ALAMEDA, CALIFORNIA

100000
Name of
ENHE
- 25
_
0.00
-
-
- 525
82.5
-
-
FATE
-
-
-
DEGREES
-
-
-
-
-
-
-
-
-
1920000
1
223
1
_
- Contract
-
HOLE
-
100
-

ALL	22	a	36.0
DEC.	\$ 8	*	36.6 3.725 1023
NOV.	* *	C.	43.7
OCT.	00	a	49.8 2.451
SEP.	53	å l	52.7 1.447
AUG.	5 50 5 40 5 40		52.8 2.990 1023
JUL.	25	24	52.2 1.635 1023
J.	200		1.627
MAY	0 00	E	2.226
APR.			2.679
MAR.	20	3	2.165
	**		9.00
JAN.	28		910.6
MONTH	22		S. D. TOTAL OBS.

NAVWEASERVCOM

EXTREME VALUES

O

MINIMUM TEMPERATURE (FROM DAILY OBSERVATIONS)

45-77

ALAMEDA, CALIFORNIA

C

/BASED ON LESS THAN FULL MONTHS/

39 HRM 30 HRM 30 HRM 30 HRM 30 HRM 31 HRM 32 HRM 33 HRM 34 HRM 36 HRM 37 HRM 38 HRM	The second secon	JAN.	78 .	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL
90 PAIN TO												30		MIN TENP
				30						5.17				MIN TEMP DAYS
	z													
							A CONTRACT							

NAVWEASERVCOM

NO

0

0

0

0

0

0

0

0

NAVWEASERVCOM

3

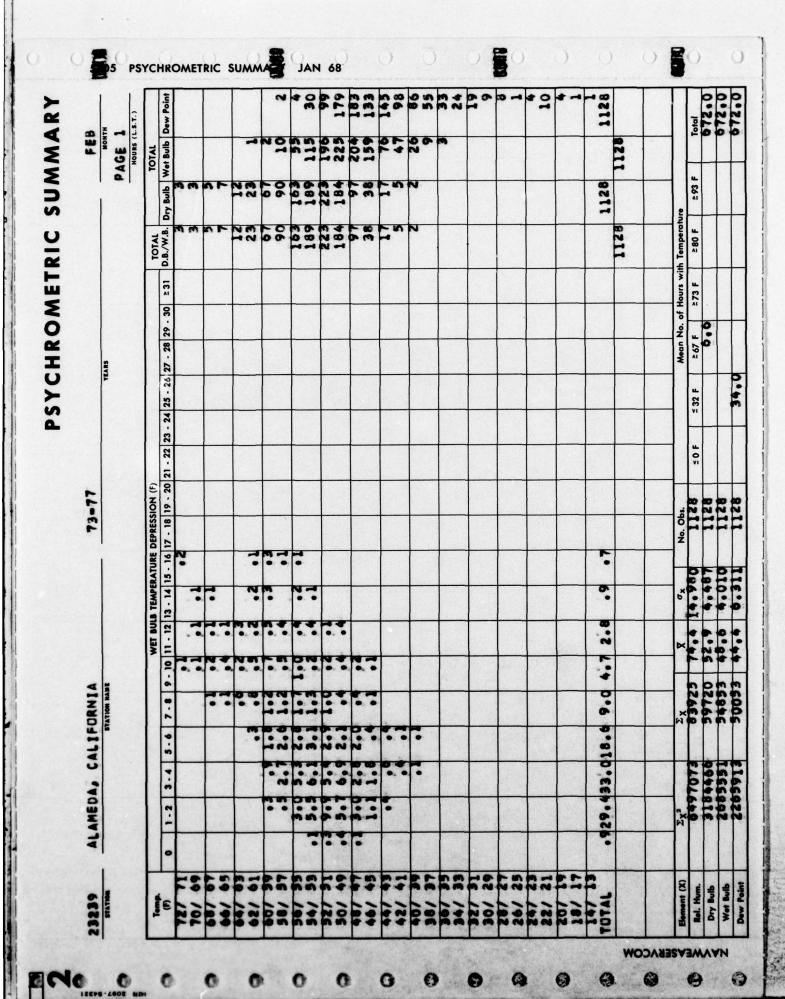
0

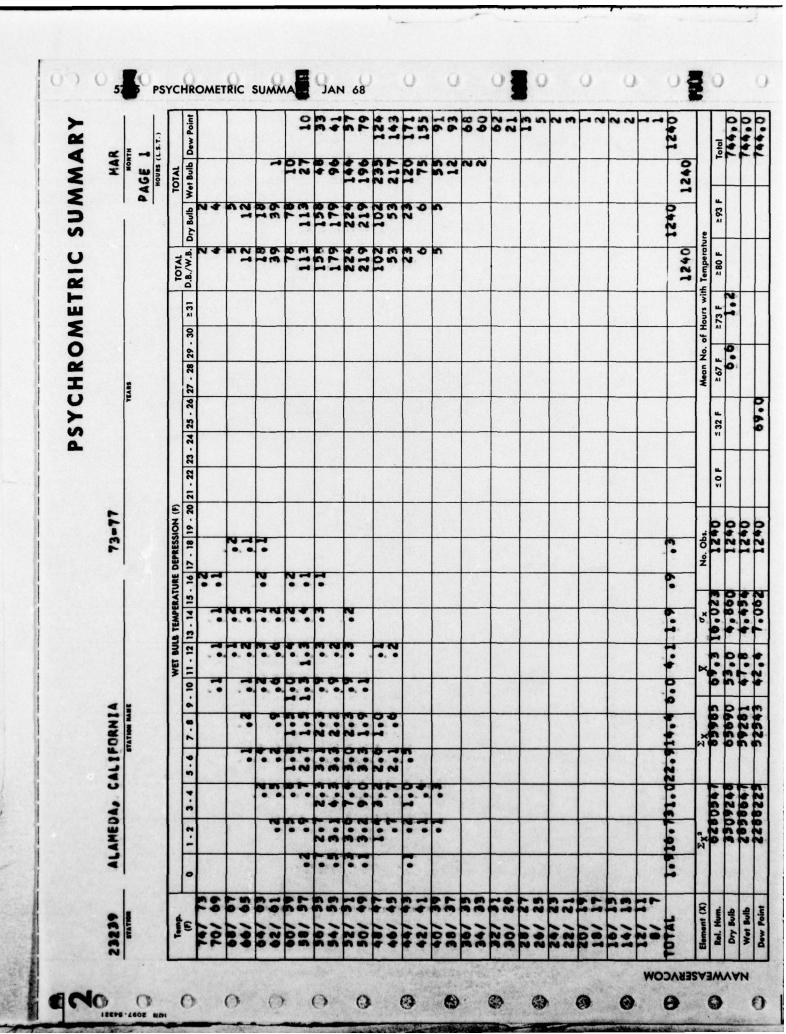
0

0

0

(3)





0

0

0

020

0

0

0

0

13-77 RATURE DEPRESSION (F) 15-16 17-18 19-20 21-22 2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	
2 13 - 14 15 - 15 - 15 - 15 - 15 - 15 - 15 -	10

ISEAS. TEOS MEN

0

0

0

1252-7605 MSH

0

0

0

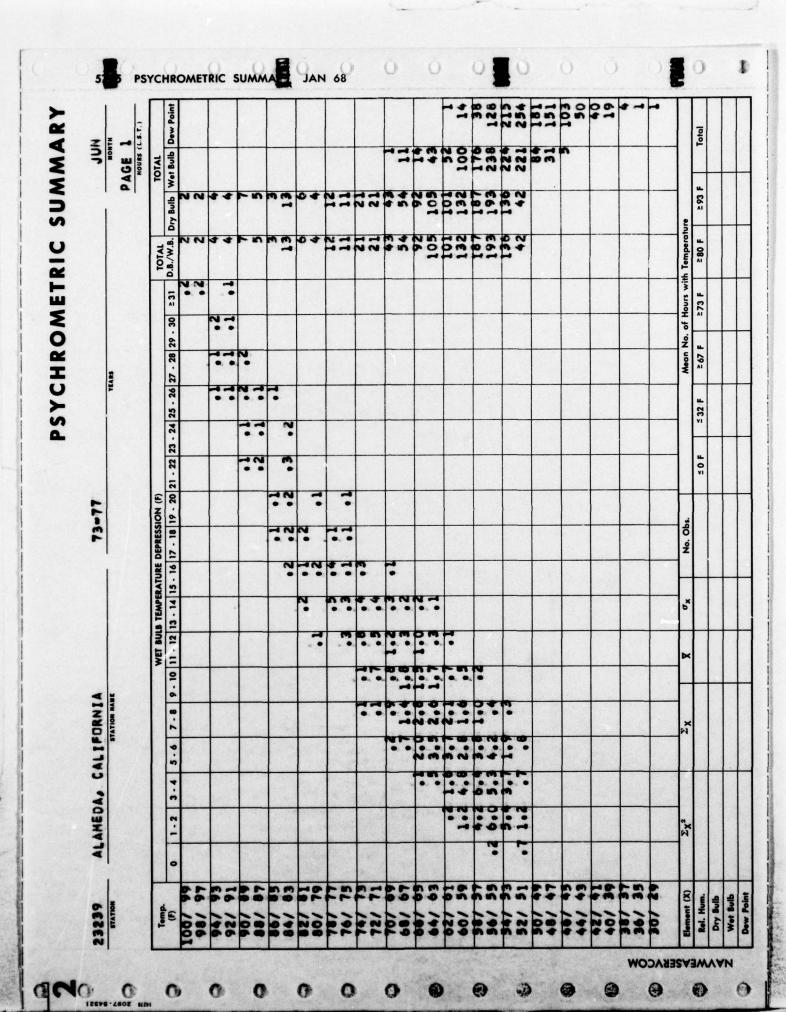
0

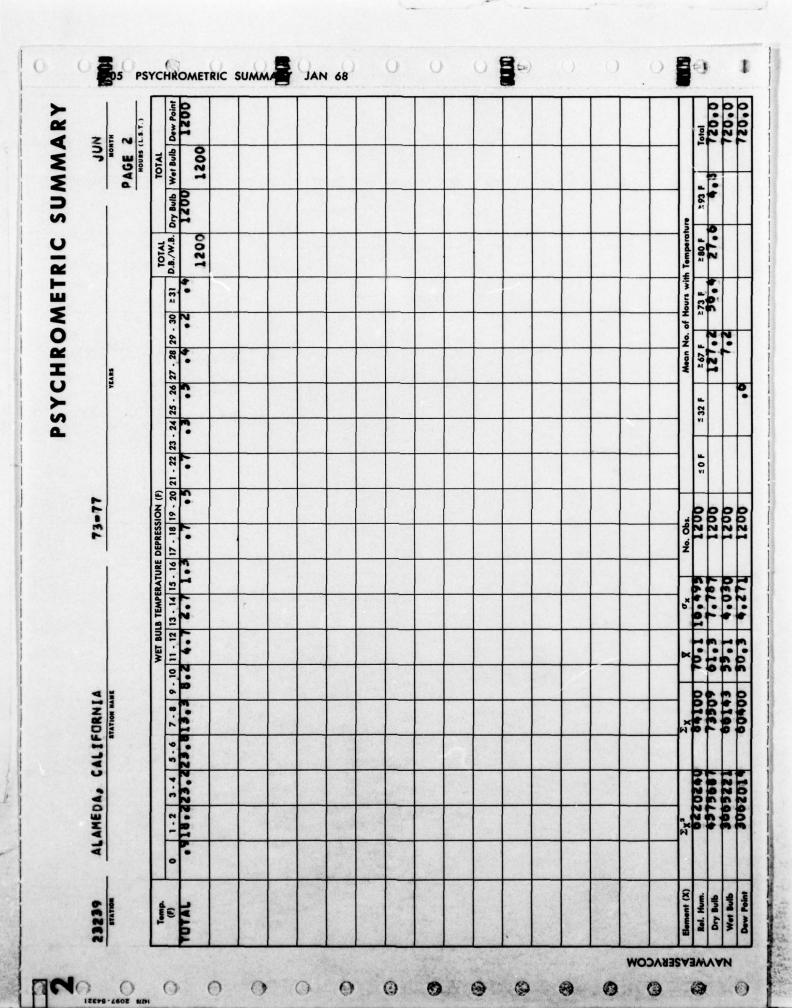
C

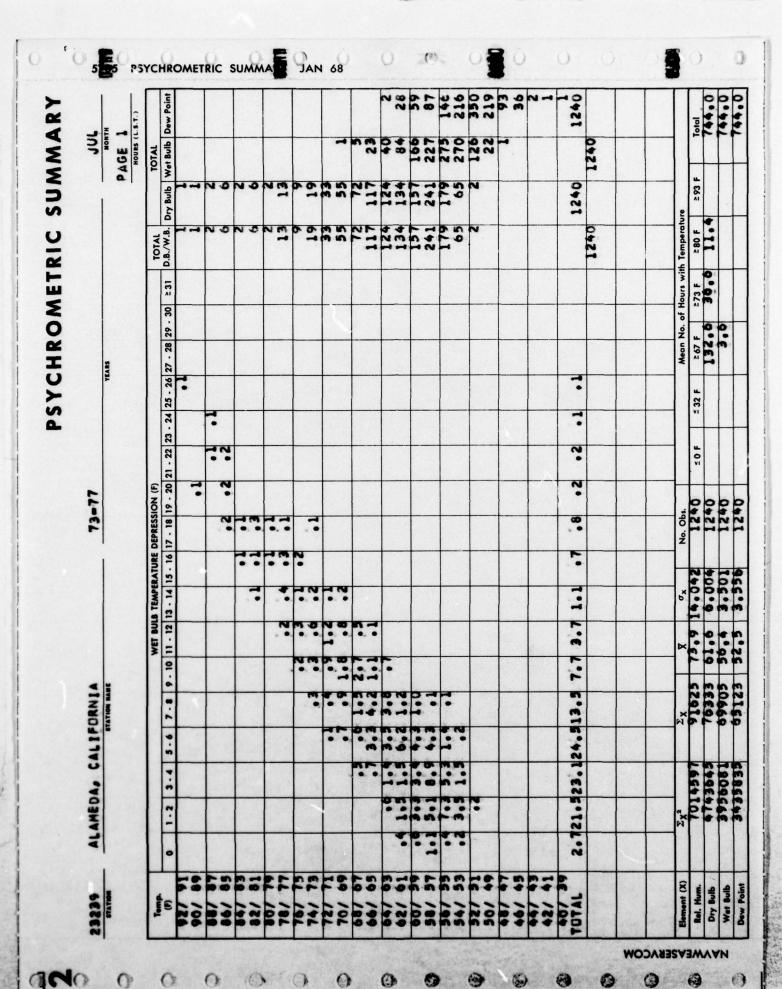
0

NAVWEASERVCOM

0







0

0

0

0

0

15648-7605 HSH

0

0

NAVWEASERVCOM

(0)

0

0

0

(3)

0

0

900

12648-7605 MSH

0

0

0

0

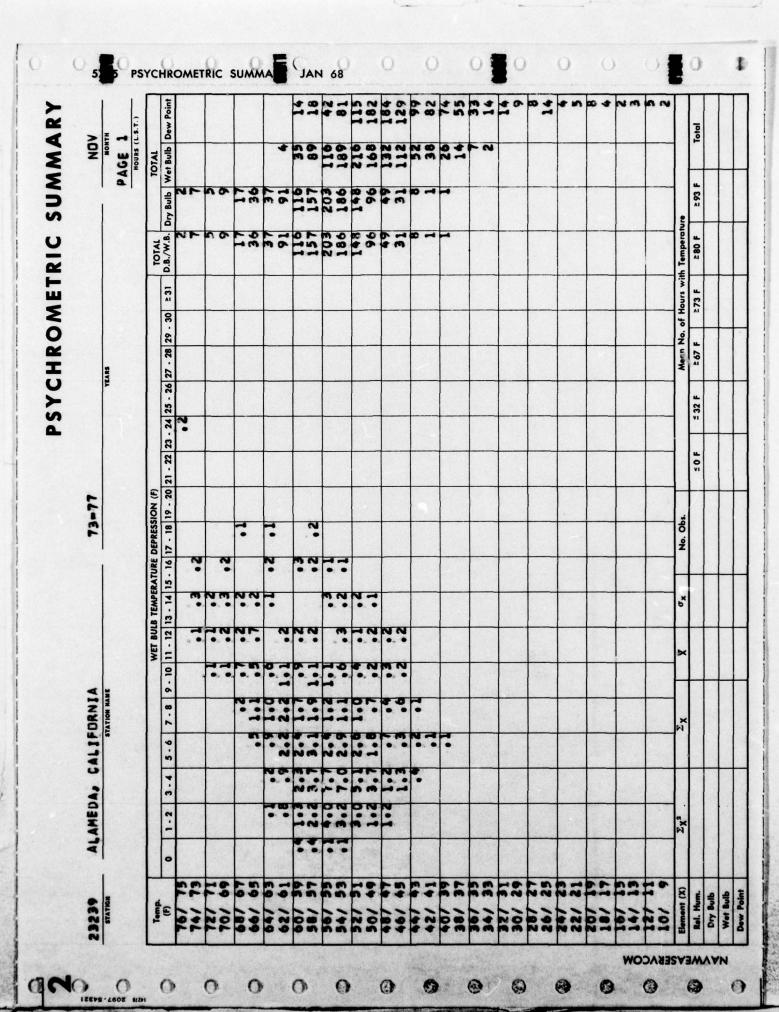
0

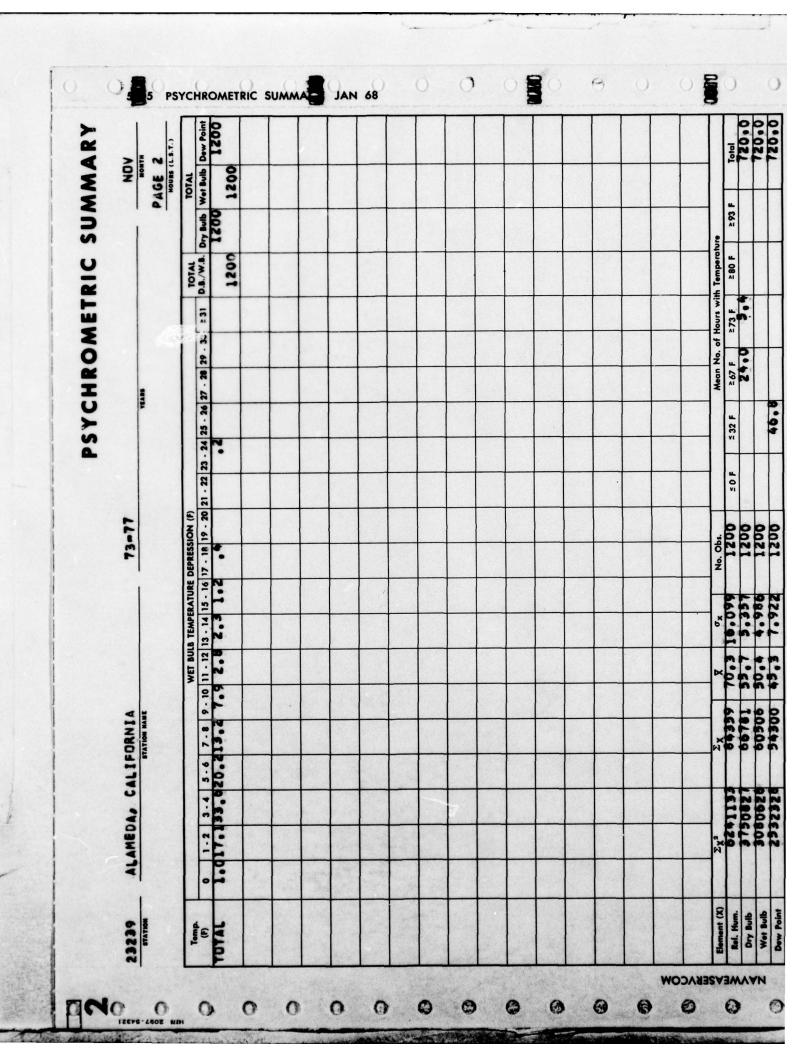
0

ALAME		-	933	12	55	2.2	010	69			•		0.00	7.06	35		27		Σχ ²	6
ALAMEDA, CALIFORNIA		1	*					-	-	Aller Sales								16		0166760
ALIFE	i.		0.0			7.	44	100		LA								916.012.2	M	
RNIA	STATION NAME					7		2.8		• 10	7								×	28906
		WET BUI	2			77	05		23 CM		2				6			0.1	×	1961
		BULB TEMP		-	•	• •	• •	- N	•	7								20		2
		B TEMPERATURE	2		N	• •	NN	7	m 70									•		111
73-77		B TEMPERATURE DEPRESSION (F)	9	7.7	77		7.	2.										1.2	No. Obs.	1240
11		3	7		7.	:	77											•		
		200	3	7	77													•		±0 ₽
	•		1 50															7		≤ 32 F
	YEARS	100	47 97 - 77																Mean No.	≥ 67 F
		1 1	3																of Hours	≥73 F
		TOTAL			7-4	NW	31	96	135	206	113							1240	with Temperature	
			N O	41	15			5 45	25. 133		3 113	2						1240	rature	2 93
00.7	PAGE 1		Wer Build				-	m	-			24	8-4					1240		-
	MTH		Dew roin						22	183	293	182	44	4.0	Oin	=*	12	1240		Total

(

MO O





0

0

0

0

0

NAVWEASERVCOM

0

8

0

0

PSYCHROMETRIC SUMMA JAN 68 1801 1801 1388 585 1994 1994 1837 1067 1605 1605 2019 1554 1504 1504 1893 2005 1068 1068 1569 1771 612 612 1440 1492 420 420 1102 1248 211 211 626 1173 1102 1248 626 1173 480 955 277 681 131 537 340 **Dew Point** SUMMARY PAGE 1 Total ALL 263 903 1388 1837 277 Dry Bulb Wet Bulb TOTAL 28 Mean No. of Hours with Temperature **PSYCHROMETRIC** TOTAL D.B./W.B. ≥ 80 F 00 ≥73 F 131 29 - 30 00 ₹ 79 E 000 WET BULB TEMPERATURE DEPRESSION (F)
9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 ≥ 32 000000 000 \$ 0 F 000-00000000 8 ģ ALAMEDA, CALIFORNIA == 1.2 • Ref. Hum. Dry Bulb Wet Bulb 23239 NAVWEASERVCOM

0

0

0

0

0

0

PSYCHROMETRIC SUMMARY

PSYCHROMETRIC SUMMA JAN 68

	. C.13		Dew Point	12	40	42	12	128	S -	10991							Total	60.0	8760.0
ALL	PAGE 2		Wet Bulb D							4607			1				٢	1	1
	4 a									_ ~					+		≥ 93 F	0.0	
			Dry Bulb							0941						ature			-
		TOTAL	D.B./W.B.							14607						Mean No. of Hours with Temperature	≥80 F	87.0	
			≥31							•						ours wit	73 F	2002	
			29 - 30							•						% of H	A1		
	2		27 - 28							•						Mean	≥ 67 F	811.2	22
	YEARS		25 - 26							:	1						≤ 32 F		8.
			23 - 24 2							~							VI	-	+
			- 22														\$ 0 F		
11		(F) NO	9 - 20 2				7			7							-	-	-
73-77		WET BULB TEMPERATURE DEPRESSION (F)	10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21							e.						No. Obs.	1460	14607	144
	1	ATURE D	5 - 16 1							•							5	-	-
		TEMPER	3 - 14 1							•						5	5.6	7.267	A 8 2 A
		/ET BULB	1 - 12 1							3.5						×	No. of Lot		-
		*	9 - 10 1														+	+	4
RNIA	STATION NAME		7 - 8							7.7						Σ×	1054501	224269	
LIFO	THE STATE OF THE S		9.6							0.0						- A	601	-	
40			3 - 4							9.6							073	*84	
ALAMEDA, CALIFORNIA			1 - 2						3	21.329.020.012.						£X3	79688073	48200284	
ALA			0											+		Î		-	1
		-		52	52	75	22	23	00							8	6	9	+
23239	STATE	Temp	•	30/	192	/22		121	60	104						Element (X)	Rel	Dry Bulb	

0

0 2 3

0

TED BY THE STANDARD REGISTER COMPANY, U. S. A.

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY DESERVATIONS

23239		ALAMEDA, CALIFO	CALIFO	RNIA			1386							
STATION	1		16	TATION NAME						YEARS				
HRS.(LS.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
7	S. D. TOTAL OBS	3.963	2.827	30.3 3.031	3.159	2.925	3.452	2.401	58.1	3.067	56.9 2.939 155	59.1 3.760 150	49.5	53.5
8	S. D. TOTAL OBS	4	2.99	3.17	3.255	3.040	3.20	2.338	2.340	9.0	2.00.4	92.1 3.773 150	48.6 3.594 155	52.8 4.898 1826
6	S. D. TOTAL OBS	**************************************		49.3 3.372	3.680	4.358	5.179	3.016	3.237	2.930 150	3.001	3.768	3.806	53.6
2	S. D. TOTAL OBS	0.00	2.827	34.1	4.601	61.0 5.672 159	6.924	·	4.652	4.672	63.0 155.0	4.050	51.9 3.110	58.7
=	S. D. TOTAL OBS	0.00	3.631	58.0 4.54 159	6.189	7.376	130	5.836	5.853	6.00 130 130 130	5.963	60. 6.83	3.185	63.3
2	S. D. TOTAL OBS	55.1 5.223 159	1.26	57.9 4.509	5.792	69.0	150	5.0 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	4.974	9.03	66.6	50.8	3.209	1.269
2	S. D. TOTAL OBS	\$0:7 4:14	2.83	93.2	55.2 4.27	4:0:1	61.4	3.700	1.19	60.0	4.356	9.0	52.1 2.460 155	3.6.0
2	S. D. TOTAL OBS	9.00	2.602	51.5 2.973 155	3.384	34.0	57.2 3.669 150	57.9 2.576 159	2.624	9.30	3.00	34.2	2.929	4.68
ALL	S. D. TOTAL OBS	5.337	92.0	53.0 4.860	55.5	57.7 6.753	\$1:3 7.787	61.6	5.813	62.1	6.163	5.357	51.5	57.0

0

0

MEANS AND STANDARD DEVIATIONS

S
Z
O
OBSERVATIONS
2
-
-
-
0
HOURLY
-
X
3
5
-
-
=
=
FROM
193
DEG
-
-
9
=
=
=
~
TEMPERATURES
-
I
w
-
WET-BUL
=
-
-
35.1
3

73-77

ALAMEDAS CALIFORNIA

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNOAL
8	S. D. TOTAL OBS	43.0	9.512	46.6 4.180	3.267	49.2	52.6 2.812 150	54.0 2.381 155	55.5 2.534 155	55.6 2.601 150	53.6 2.634 155	49.2	46.3	5.0
8	S. D. TOTAL OBS	43.3	3.7.5	45.8	3.271	49.0	52.3 2.793 150	53.6	55.2 2.579 159	2:492	53.3 2.840 155	48.5	45.6 4.622 155	32
5	S. D. TOTAL OBS	9.000	3.935	4.36	3.810	3.676	3.464	55.2 2.981 155	3.024	2.614	3,151	4.872	44.9	8.5
2	AEAN S. D. TOTAL OBS	45.4		4.25 4.25 4.25 4.25 4.25 4.25 4.25 4.25	3.602	53.6 8.708	57.0 3.609	57.8 2.820 155	3.142	98.6 9.016 150	3.348	51.4 4.730 150	47.8 3.812 155	200
2	S. D. TOTAL OBS	47.6	3.77	\$0.3 4.106	52.5 3.825 150	55.5 3.842 155	58.7 3.797 150	2.959	3.161	\$.050	3.301	\$2.9 4.581	49.6	4
2	S. D. TOTAL OBS		51.2 3.635 161	3.847	52.3 3.676 150	34.7	3.487	59.4 2.699 159	60.2 2.855 155	2.830	3.412	4:457	3.400	200
2	S. D. TOTAL OBS	\$ 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	3.580	48.0 3.900	49.4	3.145	55.0	2.547	57.1 2.752 155	2.842	55.1 2.871 155	4.49	47.7 3.725 155	20.
2	S. D. TOTAL OBS	1.65		47.2 3.891	3.060	80.0 2.950 155	53.0	2.579	2.632	26.0	2,696	4.522	199	0,-
ALL	S. D. TOTAL OBS	4.93	48.6	47.8	120021	\$1.8 4.079 1239	55.1 4.030	3.501	3.499	57.4 3.354 1200	3.629	\$0.4 4.987	47.3	200

0

0

0

0

0

MEANS AND STANDARD DEVIATIONS

DEN-POINT TEMPERATURES DEG F PROM HOURLY OBSERVATIONS

0

0

0

0

0

STATION STATION	1	ALAMEUAS CALITURN STATIO	מורונים	STATION NAME						YEARS				
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ocf.	NOV.	DEC.	ANNUAL
10	S. D. TOTAL OBS	7.157	5.80	6.626	43.1 5.006	3.933	3.772	51.6 3.321 155	3.234	93.8 2.964	51.1	49.3	42.9 6.843 155	6.967
8	S. D. TOTAL OBS	1.0.	9.60	1.009	42.4 5.726	45.8	49.6 3.828	3.461	53.3	2.900	50.6 4.834	7.851	42.2 7.387 155	7.289
10	MEAN S. D. TOTAL OBS	7.69.0 188.0	-186.4	1.362	43.3	40.9	50.7 4.280	52.6 3.431	3.544	9.00	5.227	- 000	41.5 7.508 155	1.804
2	S. D. TOTAL OBS	7.08	96.5	42.3	43.9	47.3	51.2 4.582	53.4	3.390	3.239	52.0	45.9	43.4	47.9 7.74.7 1826
2	S. D. TOTAL OBS	10.0	\$ 1. \$ 2. \$ 2. \$ 2. \$ 2. \$ 2. \$ 2. \$ 2. \$ 2	1.554	43.4 50.5	5.239	51.0	53.5 3.603 155	3.437	8.4.3 191.0	51.1	45.5 8.531 150	43.2 7.740 155	17.7 7.678 1626
2	S. D. TOTAL OBS	7,956	6:679	1.07	44.2	4.593	4.341	3.514	3.479	54.5 3.223 150	51.5 4.572 155	45.5 8.340 150	43.4	47.9 7.534 1026
2	S. D. TOTAL OBS	9.00	0.53	42.5	43.9	3.96.5	50.0 4.004 180	52.3 3.414 155	3.3.0	53.5	51.2	15.5	1.107	6.967
22	S. D. TOTAL OBS	41.2	·	42.6 6.629	4.602	4.0.4	3.921	51.8 3.496 155	3.376 3.376	9.00	3.998	1.353	7.033	47.2 6.736 1826
ALL	S. D. TOTAL OBS	7.472	\$.51 1122 1122	7.063	5.873	4.514	50.3	52.5 3.556 1240	3.422	34.0	51.2 4.581 1240	1,922	7.343	7.389

0

0

0.0

RELATIVE HUMIDITY

DO ALAMEDA, CALTFORNIA

0

0

0

0

0

73-77

Leuron

NON

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTA	GE FREQUENCY	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	HUMIDITY GRE	ATER THAN			MEAN	TOTAL
MONTH	(LS.T.)	10%	20%	30%	40%	20%	%09	70%	%08	%06	HUMIDITY	OBS.
JAN	10	100.0	100.0	99.4	4.66	94.2	80.5	78.1	0.04	11:0	77.2	155
	8	100.0 100.0	100.0	98.7	1.96	94.2	199	78:1	46.5	14:0	77.8	155
	6	100.0 100.0	100.0	4.66	97.4	94.8	80.0	78.1	49.7	14.2	78.4	155
	2	100:0	100.0	98.1	96.0	89.7	90.0	90.09	29.7	12,3	72.5	155
	2	100.0	4.6	98.1	89.0	70.8	9.09	32.9	16.1	7:1	63.8	155
	2	100.0	7.96	95.5	87.7	75.5	99,96	20.4	12.3	5.8	95.0	155
	2	100.001	100.0	98:1	95.5	89.0	79.4	55.5	21.9	8.4	70.4	155
	2	100.0	3.00	40.4	7.86	90.0	1.00	72.9	32.9	10.3	76.1	155
1	TOTALS	100.0	75.24	98:3	95.1	88.9	78.9	9.09	31.1	10.5	72,3	1240

ALAMEDA, CALIFORNIA

O

0

73-77

FE B

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

FEB 01 04 07 13	10%					PERCENIAGE PREGUENCI OF RELATIVE HOMIDIII GREATER THAN	AIEK INAN			DEI ATIVE	NOTAL NOTAL
		20%	30%	40%	20%	%09	20%	%08	%06	HUMIDITY	OBS.
8 6 9 8	100.0	100.0	99.3	98.6	97.2	99.0	85.8	53.9	13.5	80.3	141
70 03 E3	100.0	100.0	100.0	99.3	97.2	95.0	86.5	57.4	14:9	91.2	141
9 3	100.0	100.0	100.0	97.2	97.2	92.9	87.2	58.9	14:2	60.7	141
13	100.0	100.0	97.9	96.5	93.6	87.2	66.7	30.5	10.6	74.4	141
COLD STREET COLD STREET	100.0	100.0	97.2	91.5	78.0	59.6	34.0	16.3	3.5	64.1	141
	100.0	100.0	97.9	91.5	60.1	53.9	34.8	13.5	5.8	63.1	141
92	100.0	99.3	98.6	98.6	95.0	82.3	61.7	29.1	4:3	73.0	141
22	160.0	100.0	0.001 0.00	98.6	98.6	95.7	1.08	***	8.5	78.2	141
TOTALS	100.0	99.0	98.9	96.9	92.1	82.7	67.1	38.0	9:0	74.4	1128

8000

ALAMEDA, CALIFORNIA

0

0

73-77

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NOTAL	OBS.	155	155	155	155	155	155	155	155		
MEAN	HUMIDITY	75.4	75.5	76.2	66.5	58.6	9.09	8.89	72.9		
	%06	9:7	12,3	9:7	3.9	1:0	3,2	3.9	6.9		•
	80%	32.3	34.2	9.04	18.1	10.3	11.6	21.3	27.7		
ATER THAN	70%	1.69	11.6	72.3	41.9	25.8	26.5	\$2.9	62.6		
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	%09	85.2	85.8	85.2	4.80	43.4	51.6	70.3	81.9		
OF RELATIVE	20%	1.86	90.06	95.5	84.5	69.7	72.3	99.4	94.8		
SE FREQUENCY	40%	4.66	98.7	4.66	91.6	85.8	7.78	95.5	7.86		
PERCENTA	30%	99.4	45.4	49.4	98:7	96:1	96.8	91.7	98.7		
	20%	100.0	100.0	100.0	9.4	100.0	100.0	100.0	100.0		
	10%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
HOURS	(LS.T.)	10	8	6	2	2	92	2	22		
	MOMIN	MAR									TOTALE

0

0

0

0

NAVWEASERVCOM

0

0

0

0

0

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12101	HOURS			PERCENTA	GE FREQUENCY	OF RELATIVE	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	ATER THAN			MEAN	TOTAL
MONIN	(L.S.T.)	10%	20%	30%	40%	20%	%09	%02	%08	%06	HUMIDITY	088.
APR	10	100.0		0.001 0.001	98.7	96.7	86.0	1.99	24.7	3,3	73.4	150
	8	100.0	100.0	98.7	97.3	92.7	85.3	72.7	32.0	6:7	74.1	150
	0,	100.0	100.0	0.00	7.46	90.7	84.7	65.3	29.3	4.0	72.4	150
	91	100.0	98.7	94:7	90.0	85.3	62.0	25.3	6.1	2.0	62.2	150
	13	100.0	97.3	91:3	80.0	58.7	33.3	12.0	3.3	2.0	53,3	150
	16	100.0	7.86	94:7	86.0	70.0	36.7	11.3	4.0	1:3	56,2	150
	•	100.0	100.0	99.3	98.0	88.7	76.7	40.7	12.0	1:3	67.0	150
	22	100.0	100.0	100.0	98.7	0.46	86.0	0.09	21.3		72.0	150
5	TOTALS	100.0	99.3	97.1	92.9	84.6	68.6	44.3	16.7	2:7	66.3	1200

RELATIVE HUMIDITY

ALAMEDA, CALIFORNIA

0

0

0

0

0

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

THOM .	HOURS			PERCENTA	AGE FREQUENC	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	HUMIDITY GRE	ATER THAN			MEAN	TOTAL
E CAN	(LS.T.)	10%	20%	30%	40%	20%	%09	%02	%08	%06	HUMIDITY	OBS.
MAY	. 16	100.0	100.0	100:0 100.0	100.0	100.0	94.8	49.9	35.7	10.4	77.8	154
	*	100.0	100.0	100.0	100.0	4.66	95.5	82.6	34.8	9:7	78.4	155
	70	100.0	100.0	99.4	9.66	96.8	89.7	66.5	20.0	4:5	73.6	155
	9	100.0	100.0	97.4	96.1	88.4	56.8	22.6	5,2		4.29	155
	=	100.0	96.1	94.2	89.7	67.7	34.2	9.7	1.3		55.1	155
	*	100.0	1.86	96.8	91.0	80.0	43.2	16.8	3.2		58.7	155
	0.1	100.0	100.0	4.66	1.96	92.9	77.4	41.3	13.5	2.6	68.6	155
	22	100.0	100.0	100.0 100.0	4.66	98.7	92.9	70.3	30.3	5.8	75.8	155
5	TOTALS	100.0	99.3	98.4	96.5	90.5	73.1	48.7	18.0	1:4	8.89	1239

0.0

0

0

0

RELATIVE HUMIDITY

0

0

0

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	ATER THAN			MEAN	NOTAL
MONIN	(L.S.T.)	10%	20%	30%	40%	20%	%09	70%	%08	%06	HUMIDITY	OBS.
NOT	10	100.0	100.0	100.0	100.0	100.0	40.4	17.3	46.7	16:7	79.7	150
	8	100.0	100.0	0.001 0.00	100.0	100.0	98.0	17.3	53,3	20.02	80.9	150
	10	100.0	100.0	99.3	98.7	94.7	87.3	69.3	43.3	10.0	75,7	150
	2	100.0	7.86	97.3	72.7	82.7	0.49	38.7	14.0		+.+0	150
	2	100.0	7.10	92.0	1.18	0.99	43.3	16.0	0.0		93.9	150
	2	100.0	97.3	94.0	1.88	70.7	52.0	23.3	4.0	5.	58.7	150
	•	100.0	99.3	96:7	94.7	89.3	70.7	0.44	29.3	2.0	9.89	150
	22	100.0	100.0	100.0	100.0	97.3	92.7	69.3	39,3	11.3	76.7	150
5	TOTALS	100.0	9.96	97.4	94.9	87.6	76.1	51.9	29.5	7:7	70.1	1200

0

0

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	088.	155	155	155	153	155	155	155	155		1240
MEAN	HUMIDITY	95.9	83.7	81.2	9.69	99.0	61.2	72.7	80.8		73.9
	%06	21,0	22,6	16.8	3.9	1:3	.•.	3,2	16:1		8.07
	80%	54.8	56.8	51.0	19.4	3.9	5.2	27.1	41.7		33.2
ATER THAN	70%	0.68	95,5	63.9	39.4	12.3	19.4	54.5	90.08		50.3
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	%09	99.4	100.0	98.1	78.7	47.1	53.5	17.7	100.0		83.1
OF RELATIVE	20%	100.0	100.0	100.0	97.4	78.1	84.3	98.7	100.0		94.9
GE FREQUENCY	40%	100.0	100.0	100.0	100.0	93.5	94.8	98.7	100.0		48.4
PERCENTA	30%	0.001 0.00	100.0	0.001 0.00	100.0	97.4	98.7	0.001 0.00	100.0		99.5
	20%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
	10%	100.0	100.0	100.0	100:0	100:00	100.0	100.0 10	100:0	CONTRACTOR OF THE PARTY OF THE	100.0
HOURS	(LS.T.)	10	*	70	01	2	2	2	22	TOTALS	
THE CO	MOMIT	¥								Q	

1239 ALAMEDA, CALIFORNIA

0

0

0

0

0

73-77

ERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTA	AGE FREQUENC	Y OF RELATIVE	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	ATER THAN			MEAN	TOTAL
MONIN	(LS.T.)	¥01	20%	30%	40%	20%	%09	70%	%08	%06	HUMIDITY	OBS.
AUG	10	100.0	100.0	100.0	0.001 0.001 0.001	100.0 100.0	100.0	1.86	70.3	23.2	85,3	155
	8	100.0	100.0	100.0	100.0 100.0 100.0	100.0 100.0	100.0	1.86	1.69	4.82	85.9	155
	6	100.0	100.0	100.0	100.0 100.0 100.0 100.0 100.0	100.0	100.0	1.06	64.9	22,6	64.7	155
	î	100.0		100.0 100.0	4.66	98.1	90.3	90.96	25.2	5.8	73.0	155
	=	100.0	100.0	0.001 0.001	4.7.	84.5	49.0	16.8	5.2		9.09	155
	*	100.0	100.0	0.001 0.001	96.8	88.4	65.2	27.1	9.0	1:3	64.2	155
	61	100.0	100.0	0.001 0.001 0.001	100.0	98.7	9.96	74.8	46.9	11:6	78.1	155
	22	100.0	100.0	100.0 100.0	100.0	100.0 100.0	100.0	91.6	61.3	18:7	83,3	155
5	FOTALS	100.0	100.0	100:0	99.2	96.2	87.7	69.9	44.0	14:0	76.9	1240
The state of the s	The same of the sa			Charles of the Control of the Contro								

0

RELATIVE HUMIDITY

ALAMEDA, CALIFORNIA

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0

0

0

TACA	HOURS			PERCENT	AGE FREQUENC	Y OF RELATIVE	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	ATER THAN			MEAN	TOTAL
MONIE	(L.S.T.)	10%	20%	30%	40%	20%	%09	70%	80%	%06	HUMIDITY	OBS.
SEP	18	100.0	100.0	100.0	100.0 100.0 100.0	100.0	100.0	95.3	74.0	20:7	84.9	150
	8	100.0	100.0	100.0	100.0	100.0	99.3	96.0	17.5	20.7	85.4	150
	01	100.0	100.0	100.0	100.0 100.0 100.0 100.0		10000	0.06	75.3	19.3	85,2	150
	9	100.0	100.0	100.0	98.7	96.0	87.3	58.0	26.7	2:7	72.5	150
	2	100.0	8.3	95.3	92.0	81.3	56.0	17.3	2.7		59.7	15(
	91	100.0	100.0	98.0	0.16	96.0	71.3	28.7	5,3	:	0.40	150
	67	100.0	100.0	99.3	98.0	96.0	94.7	1.08	46.0	10,7	77.9	150
	22	100:0	100.0	100.0	100.0	99.3	0.86	7.26	67.3	18.0	82.9	150
					1							
Sept.												
101	TOTALS	100.0	99.9	99.1	97.0	94.0	88.3	70.6	46.8	11:6	76.6	1200
The second secon	The second second second	The second secon	The second secon			The second secon	The second secon					

0

0

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HINON	HOURS			PERCENTA	GE FREQUENC	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	HUMIDITY GRE	ATER THAN			MEAN	TOTAL
	(LS.T.)	10%	20%	30%	40%	20%	%09	70%	%08	%06	HUMIDITY	OBS.
100	8	100.0	100.0	100.0	4.06	98.1	96.8	99.0	67.1	9:7	61.7	159
	8	100.0	100.0	100.0	98.7	98.1	95.5	\$0.3	67.7	12.3	82.4	199
	0.7	100.0	100.0	98.7	98.1	95.5	95.5	92.3	70.3	19:4	93.0	158
	10	100.0	100.0	97.4	96.1	92.9	90.0	44.5	13.5	2.6	68.7	159
	13	100.0	\$	92.9	87.1	70.3	41.3	12.3	3.9	.•	56.1	159
	2	100.0	3:	1:06	91.6	79.4	34.8	19.4	3.0	.•	60.1	159
	=	100.0	100.0	100:0	98.7	94.8	1.00	67.1	30.3	1:0	74.0	159
	2	100.0	100.0	100.0	98.7	97.4	94.2	83.9	40.7	4.5	79.0	159
				- V								
101	TOTALS	0.001	8	•	94.1	100	0.00	4.64	38.3	9.79	78.	9461

0

A THE PERSON OF PERSONS IN PRESENT AND PARTY OF PERSONS IN PRESENT AND PROPERTY OF PERSONS IN PROPERTY OF PERSONS

NOV

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

Old 100-0 99-3 90-7 98-0 92-7 90-7 70-0 39-7 96-0 92-7 90-7 70-0 39-7 96-0 90-7 90-0 90-0	-	HOURS			PERCENTA	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	OF RELATIVE	HUMIDITY GRE	ATER THAN			MEAN	TOTAL
01 100.0 99.3 99.7 98.0 92.7 76.0 38.7 6.0 96.3 0.0 100.0 100.0 98.0 97.3 94.7 91.3 82.7 44.0 96.3 0.7 100.0 100.0 99.0 94.7 96.0 90.7 80.0 44.7 10.0 10.0 10.0 96.0 94.7 70.0 46.7 24.7 10.0 16.3 100.0 96.0 96.0 90.3 72.0 47.3 24.7 10.0 16.3 17.0 17.0 18.7 4.0 27.1 12.0 2.7 12.0 18.7 4.0 17.0 18.7 4.0 17.0 18.7 4.0 17.0 18.7 4.0 17.0 18.7 4.0 17.0 18.7 4.0 17.0 18.7 4.0 17.0 18.7 4.0 17.0 18.7 4.0	MONIT	(LS.T.)	10%	20%	30%	40%	20%	%09	70%	80%	%06	HUMIDITY	088.
04 100.0 100.0 97.3 94.7 91.3 82.7 44.0 95.3 07 100.0 100.0 96.0 97.3 96.0 90.7 80.0 44.7 10.0 10 100.0 96.0 94.7 86.7 72.0 90.0 22.0 5:3 18 100.0 96.0 96.0 96.7 70.0 46.7 24.7 10.0 1:3 19 100.0 96.0 96.0 92.7 76.0 30.0 13.7 4:7 22 100.0 96.7 96.0 92.7 76.0 30.0 18.7 4:7 22 100.0 96.2 96.0 92.7 86.7 69.3 27.3 4:7 100.0 96.2 97.4 95.1 87.4 75.4 57.2 27.2 5.7	NOV	10	100.0	99.3	98.7	98.0	92.7	40.1	76.0	38.7	8.0	10.1	150
10 100:0 100:0 96:0 97.3 96:0 90:7 80:0 44.7 10:0 10 100:0 99:3 97:3 96:0 88:7 72:0 50:0 22:0 5:3 18 100:0 98:0 94:7 88:7 70:0 47.3 24.7 10:0 1:3 19 100:0 98:0 96:0 96:0 92:7 76:0 50:0 18:7 4:0 22 100:0 99:3 96:7 98:0 92:7 86:7 69:3 27.3 4:7 19 100:0 99:2 97:4 95:1 87:4 75:4 57:2 27:2 5:7		8	100.0	100.0	98.0	97.3	94.7	91.3	82.7	***	9,3	77.5	150
10 100:0 99.3 97.3 96.0 88.7 72.0 50.0 22.0 5:3 13 100:0 98.0 94.7 88.7 70:0 48.7 24.7 10:0 1:3 16 100:0 98.0 96.0 89.3 72.0 47.3 24.7 12.0 2.7 22 100:0 99.3 98.7 98.0 92.7 76.0 50.0 18.7 4:0 22 100:0 99.3 98.7 98.0 92.7 86.7 69.3 27.3 4:7 100:0 99.2 97.4 95.1 87.4 57.2 27.2 5.7		10	100.0		0.00		96.0	1006	90.0	**.1	10.0	77.5	150
18 100.0 98.0 94.7 88.7 70.0 46.7 24.7 10.0 15.0 16 100.0 98.0 96.0 92.7 76.0 50.0 18.7 4.0 22 100.0 99.3 98.7 98.7 76.0 50.0 18.7 4.7 22 100.0 99.3 98.7 98.0 92.7 86.7 69.3 27.3 4.7 100.0 99.2 97.4 95.1 87.4 75.4 57.2 27.2 5.7		91	100.0	99.3	97.3	96.0	88.7	72.0	90.0	22.0	5:3	68.5	150
16 100.0 96.0 90.3 72.0 47.3 24.7 12.0 2.7 19 100.0 96.0 96.0 92.7 76.0 50.0 18.7 4.0 22 100.0 99.3 96.7 96.0 92.7 86.7 69.3 27.3 4.7 22 100.0 99.2 96.7 96.0 92.7 86.7 69.3 27.3 4.7 100.0 99.2 97.4 95.1 87.4 75.4 57.2 27.2 57.7		=	100.0	0.86	94.7	100.7	70.0	4.8.7	24.7	10.0	1:3	39.6	150
19 100:0 96:0 92:7 76:0 50:0 18:7 4:0 22 100:0 96:7 96:0 92:7 86:7 69:3 27:3 4:7 100:0 96:2 96:7 96:0 92:7 86:7 69:3 27:3 4:7 100:0 96:2 97:4 95:1 87:4 57:2 27:2 57:2		91	100.0	98.0	96.0	86.3	72.0	47.3	24.7	12.0	2.7	0.00	150
22 100:0 99.3 98.7 98.0 92.7 86.7 69.3 27.3 4.7 100:0 99.2 97.4 95.1 87.4 75.4 57.2 27.2 5.7		10	100.0	100.0	98.0	96.0	92.7	76.0	90.0	18.7	4:0	69.8	150
100:0 99.2 97:4 95.1 87:4 57.2 27.2 5:7		22	100.0	99.3	98:7	98.0	92.7	86.7	69.3	27.3	4:3	73.7	150
100:0 99.2 97:4 95.1 87.4 75.4 57.2 27.2 5.7													
100:0 99.2 97:4 95.1 87.4 75.4 57.2 27.2 5.7													
	5	TALS	100.0	99.2	97.4	Annual Committee	87.4	75.4	57.2	27.2	5:7	70.3	1200

0

0

ALAMEDA, CALIFORNIA

0

0

0

0

0

0

73-77

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE	HOURS			PERCENTA	GE FREQUENC	OF RELATIVE	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	ATER THAN			MEAN	TOTAL
MONIN	(L.S.T.)	10%	20%	30%	40%	20%	%09	70%	%08	%06	HUMIDITY	OBS.
08c	10	100.0	100.0	99.4	98.1	97.4	91.6	61.3	47.7	19:1	79.3	155
	8	100.0	100.0 100.0	98.7	97.4	95.5	91.0	85.2	49.0	18.7	79.7	159
	07	100.0	100.0 100.0	96.1	1.96	95.5	91.6	84.5	47.1	19.4	19.6	155
	93	100.0 100.0	100.0	97.4	96.1	93.5	84.5	62.6	37.4	15.5	74.9	155
	2	100.0	4.00	96:1	90.3	95.6	62.6	45.6	18.1	5,8	65.4	155
	91	100.0	10.6	95.5	91.0	80.6	61.3	43.9	19.4	7:1	65.5	155
	2	100.0	100.0	4.66	95.5	89.7	81.9	61.3	35.5	14,2	73.4	155
	22	100.0	100.0	99.4	1.96	95.5	87.7.	71.6	41.3	14.2	76.4	155
			*									
5	TOTALS	190.0	99.9	98.0	95.1	91.3	81.5	9.99	36.9	16.51	74.3	1240

0

Ö

RELATIVE HUMIDITY

0

0

0

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

THE WORLD	HOURS			PERCENTA	GE FREQUENCY	Y OF RELATIVE	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	ATER THAN			MEAN	TOTAL
E NO	(LS.T.)	10%	20%	30%	40%	20%	%09	70%	%08	%0%	HUMIDITY	0.08 0.05
NAL	1	100.0	49.7	98.3	95.1	88.9	78.9	9.09	31.1	10.5	72.3	1240
468		100.0	6.06	98.9	96.5	1.26	82.7	67.1	38.0	9.0	76.4	1128
MAR		100.0	9.0	98.4	94.6	87.5	71.5	\$2.9	54.5		69,3	1240
4		100.0	99.3	97.1	92.9	94.6	9.89	44.3	16.7	2:7	66.3	1200
HAY		100.0	99.3	98.4	96.5	90.5	73.I	48.7	18.0		68.8	1239
NO.		100.0	98.8	97.4	6.46	87.6	76.1	91.9	5.62	7.7	70.1	1200
300		100.0	100.0	99.5	98.4	94.8	83.1	59.3	33.2	10.8	73.9	1240
AUG		100.0	100.0	100:0	99.2	96.2	87.7	6.69	0.44	14.0	76.9	1240
98		100.0	\$.0	99.1	97.8	94.8	88.3	30.0	46.8	11.6	76.6	1200
-50		100.0	99.9	1:06	96.1	9006	.00	62.4	38.3	6.9	73.1	1240
NO N		100.0	99.2	97.4	99.1	97.4	15.4	57.2	27.2	5.7	10.3	1200
DEC		100.0	6.66	98.0	95.1	91.3	81.5	9.99	36.9	14:1	74.3	1240
7	TOTALS	100.0	7.06	4.06	96.0	90.5	79.0	59.3	32.0	9.0	72.2	14607

0

Ш	
œ	
⊃	
5	
2	
111	
ā	
₹	
Ш	
-	
œ	
₹	
OF AIR TEMPERATU	
L	
0	
>	
O	u
SNC	Ne
JENC	Ne
DENC	Ne
EQUENC	Ne
REQUENC	Ne
FREQUENC	70
E FREQUENCY	70
	3/
	3/
ITAGE FREQUENC	37
ITAGE	37
ITAGE	**
ITAGE	27
	**
ITAGE	20

WIND DIRECTION
JAN 1973-DEC 1977

JANUARY ALL

18.2 19.2 19.5 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6		Name of the last	S NA	EN EN	300	300	WSS	WSW	WNW		TOTAL	% OF
19-2 13-3 10-4 1-1 13-6 14-8 13-8 13-8 13-8 13-8 13-8 13-8 13-8 13		Z 4	& NE	8 E	& SE	8.5	A S W	*	N N	CALM	FREQ.	TOTAL
18-2 10-4 10-5 10-5 10-5 10-5 10-5 10-5 10-5 10-5	122+											
14.2 33.3 30.3 10.4 7.1 3.6 17.9 14.3 20.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	121 01 21											
14.3 32.3 10.7 7.1 3.6 17.9 14.3 28.4 3.5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	9110											
39.3 39.3 30.3	111 OT 701											
18:2 1:1 2:3 33:3 33:3 33:3 33:3 33:3 33:3	9010											
10.0 1 10	101 01 26											
14.2 1.1 3.6 17.9 14.3 23.2 3 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14	92 TO 96											
16.2 10.3 10.7 7.1 3.6 14.8 22.7 9.0 16.8 22	16 01 78											
16:2 10.7 7:1 3.6 17.9 16.3 28.6 3.6 2.9 3.8 32.3 32.3 32.3 32.3 32.3 32.3 32.3	82 TO 86											
14-3 33-3 10-7 7-1 3-6 17-9 14-3 23-3 23-3 33-3 33-3 33-3 33-3 33-3 3	18 01 77											
14.3 10.7 7.1 3.6 17.9 14.3 25.8 35.3 35.3 35.3 15.3 15.2 15.5 15.5 15.5 15.5 15.5 15.5 15.5	97.0											
16.2 1.0.7 7.1 3.6 17.9 16.3 20.6 3.6 2.8 18.2 1.1 2.3 20.6 3.6 17.9 17.8 22.7 0.0 0.0 3.8 3.2 0.0 3.8 3.2 0.0 3.8 3.2 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	12.0		33.3						33.3	33.3	. 3	.2
19.2 1.1 2.3 9.1 13.9 8.0 14.8 22.7 9.0 19.0 19.0 13.9 17.8 9.2 33.8 13.6 13.9 17.8 13	99 0	14.3		10.7		306	17.9	14.3	28.6	3.6		2.3
32,8 4,2 3,9 12,7 8,0 13,9 17,8 9,2 338 32,8 4,2 3,9 9,3 8,8 2,7 6,1 15,6 16,6 409 30,1 7,1 9,6 14,0 10,2 1,9 4,7 21,4 32 19,2 19,2 13,9 15,4 7,7 1,9 1,9 4,7 21,4 32 19,2 19,2 13,9 15,4 7,7 1,9 1,9 1,9 1,9 1,9 1,9 1,9 1,9 1,9 1,9	19 01 75	18.2	-	2.3		100	8.0	14.8	22.7	6.0		7.1
32.8 4.2 3.9 9.3 8.8 2.7 6.1 15.6 16.6 409 30.1 7.1 9.6 14.0 10.2 1.9 4.7 21.4 322 19.2 19.2 13.3 15.4 7.7 1.9 1.9 4.7 23.1 52	95 0	19.8	2	3.0		12.7	8.0	13.9	17.8	9,2		27,3
30-1 7-1 9-6 14-0 10-2 1-9 -0 4-7 21-4 322 19-2 19-2 13-5 15-4 7-7 1-9 1-9 23-1 52 19-2 19-2 13-5 15-4 7-7 1-9 1-9 4-7 21-4 322	15 0	32.8		3.9		G.	2.7	6.1	15.6	16.6		33.0
19.2 19.2 19.4 7.7 1.0 23.1 52.	9 4 6	30.1		9.6		10	1.9	6.	4.7	21.4		26.0
	37 TO 41	19.2		13.5		7		1.9		23.1		4.2
	32 TO 36											
	18 0											
1-1-4 1-1-4 1-1-5	92 0											
19 19 29 29 39 44	0 21											
19 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 -	91 0											
19 -9 -9 -24 -29 -29 -29 -29 -29 -29 -29 -29	=											
19 19 29 29 39 44	9											
	1 0											
	0-4		*									
	4-01											
	10-14											
	10-19											
	10-24											
	10-29											
	TO-34											
	10-39											
	10-44											
	TO-49											
	10-54											
	& LWR											

0

0

0

0

NAVWEASERVCOM

I

ш	
_	
1 46	
OF AIR TEMPERATURE	
_	
_	
· cal	
•	
~	
_	
ш	
_	
n	
-	
-	
ш	
_	
_	
~	
II.	
100	
-	
•	
ш	
_	
u	
100	
-	
100	
\simeq	U
ĭ	2
ž	3/
ž	3/
EN	3/
EN	3/
UENC	3/1
DEN	3/1
DEN	3//
OUEN	3/1
EODEN	3/1
EQUEN	3/1
SEGUEN	3/1
REQUEN	3/1
REQUEN	3/1
FREQUEN	3/1
FREQUEN	3/1
FREQUENCY O	3/1
FREQUEN	3/1
E FREQUEN	3/1
E FREQUEN	3/
SE FREQUEN	3/
GE FREQUEN	3/1
GE FREQUEN	3/1
AGE FREQUEN	3/
AGE FREQUEN	3/
TAGE FREQUEN	3/1
TAGE FREQUEN	3/1
NTAGE FREQUENC	3/1
NTAGE FREQUEN	3/1
ENTAGE FREQUENC	3/1
ENTAGE FREQUEN	3/
ENTAGE FREQUENC	3/
CENTAGE FREQUEN	3/
CENTAGE FREQUEN	3/1
RCENTAGE FREQUEN	3/1
RCENTAGE FREQUEN	3/1
RCENTAGE FREQUEN	3/1
ERCENTAGE FREQUENO	3/1
ERCENTAGE FREQUEN	3/
PERCENTAGE FREQUEN	9/1
PERCENTAGE FREQUEN	97
PERCENTAGE FREQUEN	9/1
PERCENTAGE FREQUEN	9/1

•

WIND DIRECTION

JAN 1973-DEC 1977

ALAMEDA, CALIFORNIA STATION NAME

FEBRUARY

42.4 1126 100.0 % OF TOTAL TOTAL FREQ. V-000 11.0 CALM 491.00 13.8 WN W 16.5 wsw & w 5.9 2000 SSW & SW WIND DIRECTION 2007 14.8 SSE 11.6 15.1 ESE & SE 20.00 3.7 ENE S 2000 4.3 NNE A 20.00 NN N -18 TO-14 -23 TO-19 -28 TO-24 -53 TO-49 -58 TO-54 -59 & LWR -38 TO-34 -43 TO-39 -48 TO-44 -33 TO-29 -13 TO -9 TOTALS -3 10 1 17 10 121 112 TO 116 111 07 701 101 OT 76 17 OT 78 62 TO 66 19 01 75 47 10 51 32 TO 36 12 TO 16 102 TO 106 92 10 96 16 01 78 82 TO 86 18 OT 77 72 10 76 52 TO 56 42 TO 46 37 TO 41 27 10 31 22 TO 26 17 10 21 -8 TO-4 TO 11 10 6 122+

NAVWEASERVCOM

0

0

.

Ä	
5	
F	
~	
W	
T	
Ú	
-	
œ	
4	
L	
0	
ENTAGE FREQUENCY OF AIR TEMPERATURE	
ž	VS
H	
5	
M	
L	
ш	
O	
5	
7	
-	
E	
RCE	
PERCEN	

WIND DIRECTION

ALAMEDA, CALIFORNIA

					WIND DIRECTION	CTION					
TEMP.	NN Z	NNE & NE	S E E	ESE & SE	SSE & S	SSW & SW	wsw 8 w	wnw 8 nw	CALM	TOTAL FREQ.	% OF TOTAL
122+											
121 01 211											
112 TO 116											
111 OT 701											
102 TO 106											
101 01 76											
92 10 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 10 76								100.0		2	~
17 07 79	11.11		11.1				22.2				
62 TO 66	14.0		2.0		2,0	2.0	46.0	32.0	2.0	50	
19 OT 72	11.9				17.6		34.8				
52 TO 56	9.9	2.6			10.4		27.2				37,3
12 OT 74	15.9				9.4		24.6				
42 TO 46	28.4		6.6		6.2		8.6	16.0			
37 TO 41	33.3					16.7	16.7			9	
32 TO 36											
27 TO 31			4								
22 TO 26											
17 10 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO-4											
-13 TO -9											
-18 TO-14											
-23 TO-19									T		
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR											
TOTALS	13.6	3.6	4.1	6.9	12.2	0.0	27.0	18.0	5.6		1240 100.0

0

0

0

3

1.1	
-	
_	
~	
-	
_	
_	
-	
-	
-	
101	
-	
_	
_	
-	
~	
-	
-	
-	
•	
U	U
2	S
N	S
N	SN
N	SN
ENC	NS
ENC	SA
JENG	VS
UENC	SA
DENC	SA
DENC	SA
DUENC	SA
QUENC	SA
COUENC	SA
EQUENC	SA
EQUENC	SA
REDUENC	SA
REQUENC	SA
REQUENC	SA
REQUENC	SA
FREQUENC	SA
E FREQUENCY OF AIR TEMPERATURE	SA
E FREQUENC	SX
E FREQUENC	SX
SE FREQUENC	>>
GE FREQUENC	×××
GE FREQUENC	S
AGE FREQUENC	< >
AGE FREQUENC	SA
AGE FREQUENC	SA
TAGE FREQUENC	SA
TAGE FREQUENC	SA
ITAGE FREQUENC	SA
NTAGE FREQUENC	SA
NTAGE FREQUENC	SA
INTAGE FREQUENC	SA
ENTAGE FREQUENC	SA
ENTAGE FREQUENC	S>
ENTAGE FREQUENC	S>
CENTAGE FREQUENC	S>
CENTAGE FREQUENC	S> .
ICENTAGE FREQUENC	S>
RCENTAGE FREQUENC	S
RCENTAGE FREQUENC	S>
RCENTAGE FREQUENC	S>
ERCENTAGE FREQUENC	S>
ERCENTAGE FREQUENC	S>
ERCENTAGE FREQUENC	S>
PERCENTAGE FREQUENC	57
PERCENTAGE FREQUENC	SA
PERCENTAGE FREQUENC	57

WIND DIRECTION

0

0

Pol

PERCENTAGE FREQUENCY OF AIR TEMPERATURE

WIND DIRECTION

ALAMEDA, CALIFORNIA

TEMP.	NNN 8	NNE & NE	ENE E E	ESE & SE	SSE & S	SSW & SW	wsw & w	WNW WNW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
121 01 711											
112 TO 116											
111 01 201											
102 TO 106											
101 01 26											
92 TO 96	33.3						33.3	33.3		3	
16 01 78	40.0									5	
82 TO 86	16.7							80.0		0	
18 01 77	14.3					7.1				14	1.
72 TO 76	7.4					3.7				27	2.
67 TO 71	6.5	2.2				6.5		26.1		40	
62 TO 66	2.8					9.6				177	
19 01 75	2.5	€°		E 1 .3		11.6	6		6.9	318	
52 TO 56	6.9	1.	•		4.5	14.4			4.7	486	39.
47 TO ST	4.5		4.5			19.9	42.3	11.9		156	
42 TO 46								100.0			
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
11 01 7											
2 TO 6											
-3 TO 1											
-8 TO-4											
-13 TO -9											
-18 TO-14											
-23 TO-19											
-28 TO-24				15							
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR				- 6							
TOTALS	4.3		6.	2.2	6.9	12.9	52.7	7.4.	3.6	1239	1240

0

SATURE	
OF AIR TEMPERATURE	
OF AIF	
FREQUENCY	3/
NTAGE F	

WIND DIRECTION

JAN 1973-DEC 1977

ALAMEDAS CALIFORNIA

0

					HIND DINECTION	10112					-
TEMP.	NN Z	NNE Se NE	es EN EN EN EN	ESE & SE	SSE & S	SSW & SW	wsw w	% x %	CALM	TOTAL FREQ.	% OF TOTAL
122+											
17 10 121											
112 TO 116											
111 01 201											
102 TO 106											
101 01 76						25.0	50.0	25.0		*	
92 TO 96	14.2					14.3	28.6	42.9		7	.6
16 01 78	19.4					7.7	38.5	38.5		13	
82 TO 86	12.5				6,3		50.0	31.3		16	1.3
18 01 77	18.2	6		4.5		9.1	36.4	13.6	9.1	22	1.6
72 TO 76	6.3	6.9			4.3	2.2	45.7	34.8		94	3.6
17 OT 79	6.9	1.0				5.8	\$2.9	26.9	4.8		8
62 TO 66		1.2			4.3	8.3	60.09				21.1
57 TO 61	3.8			1.1	4.4	11.8	57.1			364	30.3
52 TO 56			80	*:-	2.2	19.9	65.9	7.6	4.9		30.6
12 07 74							100.0				
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31									7		
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO-4							TI				
-13 TO -9											
-18 TO-14											
-23 TO-19											
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR											
TOTALS	3.8	6.		œ.	6.0	12.4	58.5	14.7	8.0	1200	100.0

0

0

0

1.1	
Œ	
-	
_	
4	
œ	
111	
-	
щ	
Σ	
Ш	
_	
a	
-	
-	
-	
L	
~	
U	
Y OF AIR TEMPERATURE	
~	
O	U
S	4
ENC	7
JENG	7
DENC	70
QUENC	27
EQUENC	27
REQUENC	27
REQUENC	37
FREQUENC	27
FREQUENC	7/
E FREQUENC	7/
GE FREQUENC	70
AGE FREQUENC	70
TAGE FREQUENC	37
TAGE FREQUENC	35
INTAGE FREQUENC	35
ENTAGE FREQUENC	35
CENTAGE FREQUENC	3/
RCENTAGE FREQUENC	37
RCENTAGE FREQUENC	37
ERCENTAGE FREQUENCY	**
PERCENTAGE FREQUENC	*

WIND DIRECTION

JAN 1973-DEC 1977

ALAMEDA, CALIFORNIA STATION NAME

A NE						TIND DIRECTION	201					1
11.7	TEMP.	× z	N N N		ESE & SE	SSE G S	SSW S SW	% % % %	% × × × × × ×	CALM	FREG.	% OF TOTAL
11.7	122+											
1.7 22.2 77.8 1.7 22.2 77.8 1.9 1.7 2.7 22.7 7.9 1.9 1.7 2.7 22.7 7.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1	17 10 121											
1.7 22.2 71.4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	112 TO 116											
1.7 22.2 100.0 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	111 OT 70											
1.7	02 TO 106											
1.7 2.2.2 77.8 22.7 22.7 22.7 22.7 22.7 2	77 TO 101											
1.7	2 TO %											
22.2 77.8 2.2 77.8 2.2 1.1 1.1 1.1 1.1 1.2 1.2 1.2 1.2 1.2	7 10 91								100.0			
1.7 2.7 22.7 4.5 22.7 2.6 2.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	12 TO 86							22.2	77.8		6	
1,9 1,9 1,9 1,9 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0	7 TO 81							72.7	22.7	4.5	22	
4,5 4,5 4,6 62,2 23,7 2,6 15,6 6,6 6,6 15,6 15,6 15,6 15,6 15,6	2 TO 76	1.7					5.1	54.2	37.3		66	*
2,1 2,9 6,0 60,6 16,0 5,2 280 4,0 7,9 68,1 12,8 7,0 530 4,0 7,9 68,1 12,8 7,0 530 5,0 7,9 7,9 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	7 10 71	1.0					4.0	62.2	23.7	2.6	150	
2,3 23,0 58,1 12,8 7,0 58,0 13,2 7,5 880 3,4 13,2 7,5 880 3,5 13	2 TO 66	4.5	.3		2.1	-	8.0			5,2	289	
2.3 23.0 53.4 13.2 7.5 174	7 TO 61	9.		9		6.	7.9		1000	7.0	530	
	2 TO 56			9.		100	23.0		1000	7.5	174	
	7 TO S1											
	2 TO 46											
	7 TO 41											
	2 TO 36											
	7 TO 31											
	2 TO 26											
	7 TO 21											
	2 TO 16											
	10 11											
	10 6											
	-3 TO 1											
	-8 TO-4											
	-13 TO -9											
	-18 TO-14											
	-23 TO-19											
	-28 TO-24											
	-33 TO-29											
	-38 TO-34											
	-43 TO-39											
	-48 TO-44											
	-53 TO-49											
	-58 TO-54											
	-59 & LWR											

0

0

0

1.1	
ш	
m	
-	
\rightarrow	
-	
1	
œ	
1.1	
ш	
0	
=	
Σ	
1.1	
ш	
_	
AIR TEMPERATURE	
Œ	
_	
-	
ш	
-	
O	
-	
-	
ΰ	
Ó	2
NC	Ne
ENC	Ne
ENC	Ne
UENC	Ve
DENC	Ne
GUENC	VC
EQUENC	3/
REGUENC	Ne
REQUENC	Ve
FREQUENCY	VS
FREQUENC	VC
FREQUENC	70
E FREQUENCY OF A	7/2
SE FREQUENCY	3/
GE FREQUENC	3/1
AGE FREQUENCY	70
AGE FREQUENCY	70
TAGE FREQUENCY	70
NTAGE FREQUENCY	70
NTAGE FREQUENCY	Ve
ENTAGE FREQUENCY	Ve
ENTAGE FREQUENCY	7/6
CENTAGE FREQUENCY	Ne Ne
SCENTAGE FREQUENCY	90
RCENTAGE FREQUENCY	90
ERCENTAGE FREQUENCY	76
ERCENTAGE FREQUENCY	70
PERCENTAGE FREQUENCY	77

WIND DIRECTION
JAN 1973-DEC 1977

NHW NHE ENE ESS ASS ASS ASS ASS ASS ASS ASS ASS AS			STATION NAME	AME		NO. FOR GIVE	NOILU	YEARS			T L NO	
ANN NHE FIE 55 35V WSW CALM FIELD. 25.0	-					אוט טאוא	EC 108					
25.0 16.7	TEMP.	NNN N	NNE	ENE	ESE	SSE	SSW A SW	wsw w &	**************************************	CALM	TOTAL FREG.	% OF TOTAL
255.0 165.7 16	122+	5	5	3	46.5							
25.0 16.7 16.7 25.1	12 101 711											
28.0 28.0 28.1	112 TO 116											
2850 16:7 16:7 28:1	111 OT 201											
28:0 16:3 28:1	102 TO 106											
25.0 25.0	101 OT 76											
25.0 16.7 16.7 25.1 25.1 25.1 25.1 25.2 25.2 25.2 25.3 25.3 25.4	92 TO 96											
16.7 23.1	16 01 7	28.0							75.0		8	
23.1 23.1 23.1 24.1 25.1	2 TO 86	16.7						50.0			12	
29.1 2.1 7.1 7.1 5.6 32.7 32.7 5.6 15.6 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	18 01 7	14.3						47.6			21	1.8
\$40 150 10.3 7.6 56.6 15.6 36.3 30.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	2 TO 76	23.1				3.6		523 111			52	4.3
5.0 1.3 .7 2.0 10.3 7.6 56.6 6.3 50.2 1.4 6.6 .9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	17 07 7	1.5			7 2.1			100			141	
\$5.4 5.6 5.7 10.8 55.2 12.9 5.0 474 1.1 5.2 10.1 65.1 13.8 5.3 189 1.1 5.2 10.1 100.0 1.1 5.2 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10	2 70 66	9.0	1.3	•				O-EACH			302	
111 3,2 10,1 65,1 15,8 5,2 10,1 100,0	10 01 7	3.4						Selenary.			474	
	2 TO 56	1.1						morka			189	
	12 07 74							S1507 7			-	-
	2 TO 46											
	7 10 41											
	2 TO 36											
	7 10 31											
	22 TO 26											
	17 TO 21											
	12 TO 16											
	10 11				10.1							
	10 6											
	-3 TO 1											
	8 70-4											
	-13 TO -9											
	-18 TO-14								State State of the			
	-23 TO-19											
	-28 TO-24											
	-33 TO-29											
	-38 TO-34											
	-43 TO-39											
	-48 TO-44				4							
	-53 TO-49											
	-58 TO-54											
	-59 & LWR											

hi	
~	
<u>u</u>	
⊃	
-	
4	
0	
m	
~	
느	
2	
ш	
-	
~	
IT.	
7	
-	
L	
0	
-	
>	
S	
VCY	3/
ENCY	3/
JENCY	Ne
DENCY	3/
GUENCY	3/
EQUENCY	3/
REQUENCY	3/
FREQUENCY	3/
FREQUENCY	**
E FREQUENCY	3/
GE FREQUENCY	3/
AGE FREQUENCY	3/
TAGE FREQUENCY	9/1
NTAGE FREQUENCY	9/
ENTAGE FREQUENCY	97
SENTAGE FREQUENCY	97
RCENTAGE FREQUENCY	9/1
RCENTAGE FREQUENCY	977
ERCENTAGE FREQUENCY	95
PERCENTAGE FREQUENCY OF AIR TEMPERATURE	95
PERCENTAGE FREQUENCY	95

WIND DIRECTION

JAN 1973-DEC 1977

							-				
TEMP.	NN N	NNE S	ENE ENE	ESE & SE	SSE G S	SSW & SW	wsw 8 w	% N %	CALM	TOTAL FREQ.	% OF TOTAL
122+											
121 01 711											
112 TO 116											
111 OT 701											
102 TO 106											
101 01 26											
92 TO 96											
16 OT 78											
82 TO 86	30.0				10.0		20.0	30.0	10.0	01	. 8
77 TO 81	6.9				9.5	*	23.8	42.9	14.3	21	1.7
72 10 76	24.1		1.7		3,4	5.	34.5	31.0		98	
17 07 79	15.5	5.2		1.7	2.8	6.9	41.4	18.1	6.9	911	
62 TO 66	19.3		1.2		12.5	10.5	29.8	16.5	8.9	248	20.0
19 OT 72	13.6			7.5		7.3	34.5	13.2	9.5	199	
52 TO 56	6.8	2.4				6.9	35.0		22,1	340	
47 TO SI	33.3		2				-	16.7	16.7	•	. 5
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO-4											
-13 TO -9											
-18 TO-14											
-23 TO-19											
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR											
TOTALS	12.4	3.1	2.7	4.8	7.3	7.4	33.9	16.3	12.0	1240	1240 100.0
-						The state of the s	The second secon				

ш	
_	
-	
\rightarrow	
-	
_	
•	
m	
-	
111	
n	
-	
-5	
fil	
-	
-	
-	
m	
-	
-	
4	
-	
- 11	
11	1
-	
-	
U	
-	
_	
O	
0	is
S	Vs.
NC	VS.
ENC	VS.
ENC	VS.
UENC	VS.
DENC	VS.
QUENC	VS.
COUENC	VS.
EQUENC	VS.
REQUENC	VS.
REQUENC	VS.
REQUENC	VS.
FREQUENC	VS.
FREQUENC	VS.
FREQUENC	VS.
E FREQUENC	VS.
E FREQUENC	VS.
GE FREQUENC	VS.
GE FREQUENC	VS.
AGE FREQUENC	VS.
AGE FREQUENC	VS.
TAGE FREQUENC	VS.
TAGE FREQUENC	VS.
NTAGE FREQUENC	VS.
INTAGE FREQUENC	VS.
ENTAGE FREQUENC	VS.
ENTAGE FREQUENC	VS.
CENTAGE FREQUENC	VS.
CENTAGE FREQUENC	VS.
RCENTAGE FREQUENC	VS.
RCENTAGE FREQUENC	VS.
ERCENTAGE FREQUENC	VS.
ERCENTAGE FREQUENCY OF AIR TEMPERATURE	VS.
PERCENTAGE FREQUENC	VS.
PERCENTAGE FREQUENC	VS.
PERCENTAGE FREQUENC	VS.

WIND DIRECTION

NOVEMBER ALL

		j O	
		1	
		Ì	1
ŀ	à		ŀ
3	÷	ı	ľ
3	-	•	
*	L	ì	
1		į	1
3	ŕ	ì	
1	è	4	
Ī			ķ
-	8	ă	ŀ
	-	i	
	- NA		
	3	ì	
		i	
		1	

ALAMEDA, CALIFORNIA STATION NAME

					WIND DIRECTION	2010					
TEMP.	≥ Z Z •	N N N	ENE ENE	ESE & SE	SSE SAS	SSW & SW	wsw w	WN W	CALM	TOTAL FREQ.	% OF TOTAL
122+				- 47							
121 01 711											
112 TO 116											
111 01 201											
102 TO 106											
101 OT 76											
92 TO 96											
16 OT 78											
82 TO 86											
77 TO 81											
72 TO 76	60.0	20.0		10.0				10.0		10	•
17 07 79	33.3		<i>X</i>				30.0				
62 TO 66	12.5	5,4	٥.			14.3	23.2			112	9.3
57 TO 61	19.7		1,2			7.4	17.5				
52 TO 56	18.2		4.1		10.4	5.4	15,2				
47 TO S1	24.0		8.1			+:1	7.7				
42 TO 46	35.0	7	15.0	12.5			7.5	10.0	10.0		
37 TO 41	100.0									7	
32 TO 36											1
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO-4											
-13 TO -9		Y									
-18 TO-14											
-23 TO-19											
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR											
TOTALS	100	4.4	0.4	0,8	e C	8 7		- 5.2	E 7 .	1200	

0

0

0

0

0

0

0

E

ш	
=	
Œ	
-	
_	
_	
2.00	
•	
~	
ш	
111	
-	
a	
=	
2	
Itl	
_	
_	
•	
OF AIR TEMPERATURE	
-	
-	
⋖	
lı.	
_	
o	
-	
-	
_	-
O	
	6
-	
Z	~
Z	>
EN	>
UEN	>
DEN	>
OUEN	>
EQUEN	>
EQUEN	>
REQUEN	>
REGUEN	>
FREQUEN	>
FREQUEN	>
E FREQUENCY	>
SE FREQUEN	•
GE FREQUEN	•
AGE FREQUEN	•
AGE FREQUEN	•
TAGE FREQUEN	
NTAGE FREQUEN	
INTAGE FREQUEN	
ENTAGE FREQUEN	
SENTAGE FREQUEN	
CENTAGE FREQUEN	
RCENTAGE FREQUEN	
RCENTAGE FREQUEN	
ERCENTAGE FREQUEN	
PERCENTAGE FREQUEN	
PERCENTAGE FREQUEN	
PERCENTAGE FREQUEN	
PERCENTAGE FREQUEN	

WIND DIRECTION

JAN 1973-DEC 1977

ALAMEDA, CALIFORNIA

DECEMBER ALL MOURS L.S.

	+	CAIM	%
31:3 31:3		FREQ.	TOTAL
31:3 31:3 31:3 13:2 13:2 13:2 13:3	-		
31.3 31.3			
31.3 12.8 6.3 6.3 19.7 2 19.7			
31.3 12.9 6.3 6.3 10.6 19.7 2 17.7 2.1 2.6 19.7 2 1.2 3.3 1.2			
31.3 12.8 6.3 19.0 10.0 19.7 2.1 2.2 15.2 10.0 10.0 19.7 2.1 2.0 15.2 10.0 0.0 10.7 2.0 15.2 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.			
31.3 2.1 2.9 6.3 19.0 19.7 2 17.7 2.1 2.9 9.0 1 2 2.0 19.0 19.7 2 17.7 2.1 2.9 9.0 19.0 19.0 19.0 19.0 19.0 19.0 19.			
31.3 12.8 6.3 6.3 12.7 2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13			
31.3 12.3 6.3 6.3 6.3 13.7 2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13			
31.8 2.8 12.8 6.3 19.0 19.7 2.1 2.8 12.8 6.3 12.			
19:2 2:3 1:9 9:9 1:2 3 1			
31:3			
36.2 2.3 12.9 6.3 6.3 19.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0			
19.2 2.8 1.9 6.8 19.6 10.6 19.7 2 15.2 16.9 4.9 9.6 1 2.8 9.6 1 2.9 6.9 6.9 6.9 1.2 16.9 4.0 0.0 40.0 1.2 16.9 4.0 0.0 40.0 1.2 16.9 4.0 0.0 40.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	31.3	6.3	
19.7 2.1 2.6 19.2 16.9 4.9 9.6 1 2.2 3.3 1 3.0 1	22.7		
200 8.7 12.5 6.3 2.2 3 2.6 3 2.6 3 2.6 3 2.6 3 2.6 3 2.6 3 2.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3.6	15.6 1	5.2 468	
30.6 6.6 9.9 6.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		6	
0.00			2
	2	0	
27 TO 31 22 TO 26 17 TO 21 12 TO 10 2 TO 10 2 TO 6 3 TO 1 2 TO 6 3 TO 1 4 TO 20 18 TO -14 -23 TO -24 -33 TO -29 -48 TO -49 -48 TO -49 -53 TO -4			
22 TO 26 17 TO 21 12 TO 11 2 TO 11 2 TO 6 -3 TO 1 -8 TO -4 -13 TO -9 -38 TO -34 -43 TO -39 -48 TO -49 -53 TO -49 -54 TO -49 -55 TO -50 -55 TO -			
17 TO 21 12 TO 16 2 TO 6 -3 TO 1 -8 TO -4 -13 TO -9 -18 TO -14 -23 TO -29 -38 TO -39 -48 TO -49 -53 TO -49			
12 TO 16 2 TO 11 2 TO 6 -3 TO 1 -8 TO -4 -13 TO -9 -18 TO -19 -28 TO -29 -31 TO -9 -43 TO -9			
2 TO 6 -3 TO 1 -8 TO -4 -13 TO -9 -18 TO -19 -23 TO -26 -33 TO -29 -43 TO -39 -48 TO -49 -53 TO -49			
2 TO 6 -3 TO 1 -8 TO -4 -13 TO -9 -18 TO -14 -23 TO -24 -33 TO -29 -48 TO -44 -53 TO -49			
-3 TO 1 -8 TO-4 -13 TO-9 -18 TO-14 -23 TO-19 -28 TO-24 -31 TO-39 -48 TO-44 -31 TO-49			
-8 10-4 -13 10-9 -18 10-14 -23 10-19 -28 10-24 -33 10-29 -48 10-49 -53 10-49		8	
-13 TO -9 -18 TO -14 -23 TO -19 -28 TO -24 -33 TO -29 -43 TO -39 -48 TO -44 -53 TO -49			
-18 TO-14 -23 TO-19 -28 TO-24 -33 TO-29 -43 TO-39 -48 TO-44 -53 TO-49			
-23 TO-19 -28 TO-24 -33 TO-29 -43 TO-39 -48 TO-44 -53 TO-49			
-38 10-24 -38 10-34 -43 10-39 -48 10-44 -53 10-49			
-33 10-29 -38 10-34 -43 10-39 -53 10-49			
-38 TO-34 -43 TO-39 -48 TO-44 -53 TO-49			
-43 TO-39 -48 TO-44 -53 TO-49			
-48 TO-44 -53 TO-49			
-53 TO-49			
138 10 - 34			
-59 & LWR			

0

803

0

0

0

0

0

1.1	
ш	
~	
_	
-	
_	
-	
•	
~	
•	
1.1	
ш	
•	
-	
-	
2	
1.1	
-	
_	
OF AIR TEMPERATURI	
-	
_	
-	
•	
-	
-	
u	
1000	
~	
~	
Ç	
S	
NC	01
ENCY	200
ENCY	200
JENCY	200
UENCY	2/1
DENCY	211
QUENCY	***
EQUENCY	3/1
EQUENCY	277
REGUENCY	3/1
REQUENCY	2/1
-REQUENCY	3/1
FREQUENCY	9/1
FREQUENCY	2/1
FREQUENCY	2/1
E FREQUENCY	3/1
SE FREQUENCY	27.
GE FREQUENCY	3/1
AGE FREQUENCY	3/1
AGE FREQUENCY	977
<i>TAGE FREQUENCY</i>	977
TAGE FREQUENCY	9/1
ITAGE FREQUENCY	9/1
NTAGE FREQUENCY	9/1
ENTAGE FREQUENCY	9/1
ENTAGE FREQUENCY	9/1
CENTAGE FREQUENCY	9/1
CENTAGE FREQUENCY	9/1
RCENTAGE FREQUENCY	97.
RCENTAGE FREQUENCY	•/
ERCENTAGE FREQUENCY	•/
ERCENTAGE FREQUENCY	- 1
PERCENTAGE FREQUENCY	
PERCENTAGE FREQUENCY	

WIND DIRECTION
JAN 1973-DEC 1977

										Control of the contro	
TEMP.	NNN V	NNE NE	ENE ENE	ESE & SE	SSE	SSW 8 SW	wsw w &	WNW WNW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
12101711											
112 TO 116											
111 OT 701											
102 TO 106											
101 01 76						25.0	50.0	25.0		3	-
95 10 %	20.0					10.0	30.0	40.0		10	
16 01 78	19.4					3.2	16,1	61.3		31	
82 TO 86	10.1				3.1		42.2	39.1			
77 70 81	10.8			8.	1.7	3.3	49.0	31.7	5.0		
72 TO 76	12.6	2.2	~	. 3		4.4	40.4	35.6	1.3	317	2,2
17 07 79	8.3		6.	9.		5.7	53.1	23.8	3.2		
62 TO 66	6.0		F.	1.5		6.8	90.9	17.3	5.3		
19 01 2	9.9		•	3.6	7.8	9.6	47.2				
52 TO 56	9.5		2.2			11.3	34.2				
15 01 74	20.0		3.7	9.3			15.6	15.0			
42 TO 46	30.1		10.8				2.7	7.1			
37 TO 41	19.7		13.6	122		1.5	3.0		19.7		
32 TO 36											
27 TO 31								100			
22 TO 26											
17 10 21											
12 TO 16											
11 01 7											
2 10 6											
-3 70 1											
-8 TO-4											
-13 TO -9											
-18 TO-14											
-23 10-19											
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR											
TOTALS	11.6	2.2	2.5	2.0	7.8	0,00	36.6	15.4		14007 100.0	

1

0

1

1

Ī

PART F

PRESSURE SUMMARY

for all hours combined. All years of data available are combined in both of these tables, although the overall Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding period is limited to January 1946 through December 1963 because of changes in reporting practices before and to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page after those dates.

- 1. Station pressure in inches of mercury.
- 2. Sea-level pressure in millibars.

altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure Meteorological Tables.

	السلسس	31 (NLMC)	1050 (818)		
FTO	o molaman	29 30	000	•	FT.)
(1 0 0 0'S FT)	7 6 5 4 3 2 1 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 1	E	BAROMETRIC PRESSURE 800 850 900 950 1000 1050 018)	Landin Park San	ALTITUDE (1000'S FT.)
	ليسليسين	25 27	BAROMETRIC PRESSURE 800 850 900 950		TUDE
ALTITUDE	չ Լոոտուհուտ	24 25 26	850 C	IS.	ALTI
SURE	, e e e e e e e e e e e e e e e e e e e	23 24			SURE
PRES	and	22			PRES
	luntum huntum	20 (IN. NG) 21 22	(MB) 700 750	8 6 01 1	

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY DBSERVATIONS

73-77

ALAMEDA, CALIFORNIA

0

0

0

HRS.(L.S.T.)		YAN.	FEB.	MAR.	APR.	MAY	, NDL	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNOAL
8	S. D. TOTAL OBS	30.114	90	30-018	200	200	29.915	29.927		29.924 .078 150	00.00	125	30-113	30.007
8	S. D. TOTAL OBS	90.11.0	162	30.00	110-01	29.950	29.910	29.921 .071	29.922	120	29.99	126	30-111	30,000
6	MEAN S. D. TOTAL OBS	30.118	90.0	30.023	90-036	29.97	29.93	29.946	.00.0		30.014	120	30-121	30.020
2	MEAN S. D. TOTAL OBS	30.15	90-124	30.050	30.05	29.98	29.946	20.961	29.9662	20.02 150	90.03	90-11-9	30-155	30.042
2	MEAN S. D. TOTAL OBS	30.110	1163	30.029	150	29.970	29.939	20.949	.070	20.93 00.03 150	30.000	150	30.108	30.014
2	MEAN S. D. TOTAL OBS	30.08	30.064	29.92	150	29.94	29.911	29.9192	.070	29.902	29.97	120.050	30.087	1826
2	MEAN S. D. TOTAL OBS	30.09	00.072	29.99	100	29.93	29.903	29.911	29.907	29.902	29.62	130.061	30.096	29.98
2	S. D. TOTAL OBS	30.116	80-09230 -160	15	30.02	29.964	29.924	29.93	29.929	29.926	30.00	132	30-110	30,009
ALL	S. D. TOTAL OBS	30-114	30.09030	149	11000	29.961	29.922	29.933 .073	29.933	1200	30.000	130	30-113	14608

MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM MOURLY OBSERVATIONS

73-77

ALAMEDA, CALIFORNIA

STATION HRS.(1.S.T.)	5	8	6	2	2	2	2	2	
	S. D. TOTAL OBS	Pro Burnin Sanggaran Sanggaran	AEAN S. D. TOTAL OBS	AEAN S. D. TOTAL OBS	MEAN S. D. TOTAL OBS	S. D. TOTAL OBS	MEAN S. D. TOTAL OBS	MEAN S. D. TOTAL OBS	MEAN
Z	1020.7 9.178	1020-6101 5.235 5.4	1020-910	1022-110	1020-61020-210 5-270 5-954 4 159 161	5.180 5.634 4 5.180 5.634 4	1020-21019 5-117 5-4	1020-	1020-91020-010
e EB		9 000	1020-210	23.7	1020.2	1019.1		9.411	1020-0
STATION NAME	21017.5	m . wa	1017.7 5.043	21018.0 5.012	1017.8 4.852 155	1016.6	41016.8	4.839	1017.4
APR	25	101 1.5.6 2.5.8	1018-1 3.778 150	1018.7 3.662	1018-0	1016.8 3.651	1016.8 3.534	3.610	1019.6
MAY	2.995	3.01	1016.1 3.023	1016.5 3.075	3.092	1015.0 3.052 159	3.003	3.028	1015.6
Z Z	1014.1 2.913	1013.8 2.919 150	1014.7 2.846 150	1015.1 2.893 150	2.90	1013.9 2.927 150	1013.7 2.967 150	2.947	1016.3
Ē	10	2.61	1015.1 2.386 155	2.43	71015.2	1014.2 2.398 159	2.37	2.382	1016.7
AUG	20	2.30	2.800	91015.8 3 2.300	1015.1	1014.0 2.354 155	91013.8 8 2.323 5 155	2.29	1016.6
YEARS	2.628	1014.2	1015.0 2.589	1015.7 2.581 150	2.570	1013.4 2.572 150	1013.6 2.534 150	2.555	1014.9
00	. 75	3.00	1017.4 3.137	3.234	3.199	3.174	3.242	3.154	1016.9
NON N	4.237	150	1019.9	1020.8	1019.4	1018.6	1019.0	1019.6	1019.5
Dig.	1020.7	u	1021.0	1022.2 5.126 155	1020.6 5.111 155	1019.9 5.196 155	1020.2 5.241 155	1020.7	1020.7
ANNIAL	1017.2	2 55 5	1017.6	1018.4	1017.4	1016.5	1016.5	1017.2	1017.

0 0

0

6 0

TNISS